Climatological Data for April, 1910.

DISTRICT No. 12, COLUMBIA VALLEY.

EDWARD A. BEALS, District Editor.

GENERAL CLIMATOLOGICAL CONDITIONS.

The month was a favorable one for nearly all purposes, and outdoor work, especially farming, proceeded with scarcely any interruption. The soil was easily worked and, while the rainfall was deficient, it fell opportunely, and vegetation made splendid progress. The mild weather was especially favorable for lambing, and practically no losses occurred. The season in the lowlands was from 2 to 3 weeks earlier than last year, while in the foothills in the Cascade Range it was not so far advanced, and in some localities in Washington it was reported as being slightly backward. No serious damage was done by frost, and the only losses occurred in localities where no protective measures were taken. There were no severe storms. The Columbia and Snake rivers began to rise about the 7th of the month, and they continued rising with scarcely any interruptions until the end of the month, but the flood stage was not reached at any of the gaging stations on these rivers, although at Vancouver, Wash., it came within one-tenth of a foot of the flood stage. Backwater from the Columbia caused the Willamette River at Portland to reach a stage of 16.3 feet at the end of the month, which is 1.3 feet above the flood stage.

Estimates regarding the flow of irrigation water in Montana, while varying somewhat, are generally to the effect that a normal supply will be obtained during the summer months.

TEMPERATURE.

The mean temperature, as determined from the records of 222 stations, was 51.2°, and it was above the normal in nearly all sections, especially in the eastern portion of the district where, in Montana, Idaho, and Wyoming, this was the warmest April on record at most stations. The greatest departures from seasonal temperatures were in the extreme southwest portion and over the eastern half of the district, where the mean temperatures were 4° to 6° above the normal, and in the lower levels in portions of the central Snake River drainage basin they even reached 8° above the average. The mean temperatures in the lower Columbia River, in the Puget Sound, and the coast drainage areas more nearly approximated the normal, those in the 2 last-named sections generally ranging either slightly above or slightly below the average.

The warmest sections were in the bottom lands of the Snake River along the central portion of its course, and along the Columbia River both northward and southwestward from the mouth of the Snake River, where mean temperatures of about 59° occurred. The coolest sections were, as usual, along the coast, and in the higher elevations of the interior, especially in the Blue Mountains and in the main range of the Rockies.

Low minimum temperatures prevailed quite generally east of the Cascade Mountains on the 3d and 4th, and again on the last few days of the month, but the period of coldest weather with frosty conditions over the whole district was from the 13th to the 15th, inclusive, and it was generally on one of the included dates that the minimum temperatures for the month were recorded at most of the stations. The warmest weather obtained from the 22d, approximately, to the 27th, the period being, as usual, longer in the eastern sections than in the coast counties.

The highest mean temperature was 59.8° at Blalock, Oreg., in the Columbia River Basin at an elevation of 237 feet, and also at Guffey, Idaho, on the watershed of the middle portion of the Snake River at an elevation of 2,381 feet. The lowest mean temperature was 41.0° at Range, Oreg., on the John Day watershed at 3,500 feet elevation. The highest recorded temperature was 100° at Guffey, Idaho, on the 25th, and the lowest was 4° at Alta, Wyo., in the upper Snake drainage basin, on the 4th.

PRECIPITATION.

The average precipitation, as determined from the records of 335 stations, was 1.76 inch, which is below the normal. The precipitation was generally above the average in southwestern Washington, in the middle and lower valleys of the Snake River, and in portions of the valley of the upper Columbia River, the departures being generally slightly less than half an inch, although Lakeview, Idaho, reported 1.39 inch above the normal, and East Sound, Wash., 1.03 inch above. The greatest deficiencies occurred west of the Cascade Mountains, and generally at those stations having the greatest average monthly rainfall. Over the eastern portion of the district there were 4 distinct rainy periods as follows: 1st to 3d, 6th to 14th, the 20th or 21st, and 27th to 30th; while in Oregon and Washington the first 2 periods noted were merged into 1, making 3 as follows: 1st to 13th, 19th and 20th, 25th to 30th. By far the greater portion of the monthly amounts fell during the first half of the month, the 2d and 7th being days on which unusually heavy rainfalls were recorded.

The comparatively light April snowfall occurred mostly during the first half of the month, and it generally melted quite rapidly, so that at the close of the month the greater portion of the snow that remained on the ground at the higher levels, and in the ravines, gulches, and canyons at moderate elevations, was principally the accumulation of the preceding months. It is generally well packed, and in the northern Cascade Mountains in Washington, and in the Kootenai Mountains in Montana, the depth is reported to be slightly more than the average for this season of the year.

The heaviest precipitation occurred west of the Cascade Mountains, where 1 to 7 inches fell. Over the remainder of the district, the rainfall was generally less than 4 inches, the greatest amounts falling at moderate elevations.

The greatest monthly precipitation was 7.83 inches at Trask, a station in the coast drainage area in Oregon, and no rainfall occurred at Ephrata, Wash., in the valley of the central Columbia, at an elevation of 1,265 feet, and also at Omak, Wash., on the Okanogan watershed. The greatest 24-hour fall was 2.00 inches on the 2d at Glenora, Oreg., in the coast drainage area, elevation 575 feet. Other heavy 24-hour falls of over an inch were 1.88 inch at Forks, Wash., on the 7th; 1.86 inch at Rock Creek, Oreg., on the 2d; 1.72 inch at Aberdeen, Wash., on the 7th; 1.65 inch at Lone Tree, Wash., on the 7th; 1.54 inch at Trask, Ore., on the 7th; and 1.40 inch at Burke, Idaho, on the 2d.

THE RIVERS.

The Columbia River.—There were no damaging floods during April, but temperatures far above the normal in Washington, Idaho, and Oregon caused the snow in the mountains to melt rapidly, and the Columbia and Snake rivers began to rise from about the 7th and were still rising on the 30th, the Columbia having reached such a stage that on that date its backwater in the Willamette brought the water at Portland to 1.3 feet above the flood stage. With the exception of the portage at The Dalles, the Columbia was navigable from its mouth as far up as Priest Rapids, Wash. That the river was unusually high is evidenced by the fact that at Vancouver with 7 years' record, at Umatilla with 17 years' record, and at Newport and Bonners Ferry with 6 years' record, the mean stage recorded for the month has never been exceeded. As compared with past years' record the average stage ranged from 2.6 feet above the normal at Vancouver, Wash., to 4.6 feet above at Umatilla, Oreg., and

7.6 feet above at Wenatchee, Wash. The mean stage was 0.5 foot lower than in March at Vancouver, 2.4 feet higher at Umatilla, and 8.1 feet higher at Wenatchee. At Vancouver the river rose from 9.5 feet on the 7th to 16.9 feet on the 30th, at Umatilla from 10.4 feet on the 7th to 18.1 feet on the 30th, and at Wenatchee from 13.0 feet on the 12th to 27.3 feet on the 30th. At the end of the month the annual rise of the Columbia is well under way. While the water is at a stage where much damage might have been done, warnings have been issued ever since the rapid rise began with the result that, so far, no losses have been reported and all parties interested are being notified of probable future stages by means of telephone, river bulletins, and the river forecasts that are being published in the daily papers.

The Snake River.—The mean of the daily stages, at the various stations, for the month, was about the same as for March, but from 3.0 to 5.0 feet above the normal for April. The water was at its lowest on the 6th and at its highest on the 30th. At Lewiston, Idaho, it rose from 9.3 feet on the 6th to 15.6 feet on the 27th. The Snake River was navigable to freight and passenger boats as far up as Asotin, Idaho.

The Willamette River.—The mean stage ranged from 0.4 foot below the normal at Eugene to 2.0 feet below at Albany and Salem, but at Portland, where the stages were determined by the height of the Columbia, it was 2.8 feet higher than usual for this period. The stage of the Willamette averaged generally about 3.0 feet lower than for March of this year. Except at Portland, where they were about the same as at Vancouver, the daily stages at the reporting stations varied little from the mean stage for the month which was 5.0 feet at Eugene and about 4.0 feet at Albany and Salem. The only rains in the valley that were sufficiently heavy to affect the run-off occurred from the 7th to the 12th.

MISCELLANEOUS PHENOMENA.

The prevailing winds were from the southwest. There was an excess of sunshine, except in western Washington where the amount fell slightly below the normal. The percentage of possible sunshine was 63 at Spokane, 39 at Seattle, and 55 at Portland. Killing frosts were general on the 14th and 28th; vegetation, however, was in excellent condition at the close of the month. Thunderstorms accompanied by hail were reported at many stations on the 2d and 10th. Several forest fires occurred in Washington during the latter part of the month. There were no very high winds reported.

A light earthquake shock was noted at Anaconda, Mont., on the 19th, about 1:30 a. m.

SNOWFALL CONDITIONS AND THE PROSPECTIVE WATER SUPPLY; UPPER COLUMBIA RIVER.

Bitterroot Basin.—The flow of water during April was greater than normal; it had begun to decrease at the end of the month. The stock of snow in the higher mountains is reported materially depleted and the prospect for a normal water flow later in the season is quite unfavorable.

Flathead Basin.—Stream flow below normal during April and decreasing at the close of the month. The indications are that the later run-off will be below normal, as the snow in the high mountains has been reduced by the warm weather to such an extent as to probably lessen materially the late flow of water.

Missoula Basin.—Reports are unfavorable, except in the vicinity of Elliston. In general the April flow was above normal and the snow supply was depleted by the warm weather.

Deer Lodge.—The stock of snow has been materially reduced and, unless there is a great deal of snow and rain in May and June, all the streams will be below normal.

Deborgia.—There will not be the normal flow of water this season unless supplemented by rain. Snow going very fast and the quantity much less than in former years.

Elliston.—Stream flow about normal, decreasing at end of month on account of the cold weather. The stock of snow has been reduced somewhat, but there is more left on the mountains than at this time last year. There will be above the normal water flow the remainder of the season, because of the greater amount of snow, due to there being no rains this spring to start the snow and the springs.

Clarke Basin.—Conditions are very favorable for normal waterflow. The amount of snow on the Divide north of the Clarke is reported to be much above normal.

Nixon.—The stock of snow has not been depleted by the warm weather. Owing to the solid condition of the snow and the amount in the higher ranges the prospect for a good supply of water is excellent.

Thompson.—The stock of snow in the high ranges has not been depleted and there seems to be an unusual amount in these regions. The flow of water should therefore be normal for the rest of the season.

IRRIGATION PROJECT IN EAGLE AND PINE VALLEYS, OREGON.

Mr. E. M. Blake, general manager of the Eastern Oregon Irrigation Company, furnishes the following information regarding the scope of the work to be undertaken by his company in Baker County, Oreg., during the coming summer. This project has been approved by the State engineer, and it is being financed by people living in Chicago, Cleveland, and Boise:

The irrigation project being undertaken by the Eastern Oregon Irrigation Company comprises about 22,000 acres of desert lands, which have been segregated under the terms of the Carey Act, in townships 8 and 9 south, ranges 45, 46, 47, and 48 east of the Willamette meridian. In addition to this Carey Act land about 7,500 acres of private lands, held under the terms of the Desert and Homestead Acts, come under the canal and will be watered by the company. Most of this land is side-hill land, especially adapted to the successful raising of fruit for which the two valleys are already noted. Some of the slopes are as high as 30°, but the nature of the soil is such as to prevent erosion even on these steep slopes, and already there exist high-grade orchards in the valleys on slopes as steep as this. The soil is a basaltic and volcanic ash with just a slight admixture of clay, and when irrigated is as fertile as any soil to be found in the northwest.

The company proposes to construct a concrete diversion dam across Eagle Creek at a point in section 27, township 7 south, range 44 east of Willamette meridian. From this point the canal will follow the east side slopes of the Valley of Eagle Creek for a distance of about 9 miles before reaching the first of the lands to be irrigated, continuing on to cover approximately 30,000 acres of land in Eagle and Pine valleys. The details of construction cover several siphons, some fluming, and possibly one or two tunnels if distance can thereby be shortened, which will be determined as soon as the final surveys can be completed. In all there will probably be about 28 miles of main canal.

The drainage area above the point of diversion covers the watershed of the Granite Mountains and the high hills and mountains of the Sanger, Sparta, and Cornucopia mining districts, running up to the Divide between Eagle Creek and the Imnaha River. The exact area of this watershed has never been determined, but it is approximately 150 square miles. The average annual rainfall, so far as it can be stated from the available data, is about 16 inches, but this is mostly in the form of snow which does not melt until very late in the season. In fact, Eagle Creek keeps up its large flow until late in July of each year, storage being required for a period of only about 30 days. The percentage of run-off to rainfall is very high and Eagle Creek is known as one of the best and most constant streams in the State. The State engineer is at the present time making a water survey of all lands watered from Eagle Creek by arrangement with this company. This will be the first step in adjudicating the water rights on Eagle Creek in order that the company may determine accurately how much storage must be provided. Storage sites exist above the points of diversion which will be surveyed this spring, probably in conjunction with the surveying party of the State engineer.

COOPERATIVE INVESTIGATIONS OF WATER SUPPLY AND ITS RELATIONS TO THE DEVELOPMENT OF CENTRAL OREGON.

By J. C. STEVENS, District Engineer, U. S. Geological Survey.

Central Oregon has long held the distinction of being the largest area in the United States without railroad transportation. The present indications are that this distinction will not attach to it much longer.

The latent resources of this large area are fast attracting the attention of homeseekers and those desiring to invest in the development of these resources. Perhaps the most important development will be along agricultural lines. The territory is an arid one, and irrigation is necessary. While there is a considerable area that can be utilized for profitable development under dry farming processes, the crops resulting from irrigated agriculture will far exceed those from the dry farms.

The water supply of this territory is distributed with no degree of uniformity. There is a comparatively small area that can be irrigated by individual effort. On the other hand, there are large areas that can be irrigated as community enterprises. Under the provisions of the Carey Act large areas are already in a state of development by corporations who have contracted

TABLE 1.—*Climatological data for April, 1910. District No. 12, Columbia Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Montana.																				
Anaconda	Deer Lodge	5,300	9	47.4[a]	.....	83[a]	25	22[a]	15	40[a]	0.35	− 0.35	0.15	T.	3	9	13	8	.....	C. D. Demond.
Bison	Powell	7,240	...	.....	.....	.....	.....	.....	.....	.....	0.83	.....	0.50	6.0	4	21	6	3	.....	C. H. Anderson.
Columbia Falls	Flathead	3,100	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. I. M. Kennedy.
Como‖**	Ravalli	.....	2	53.8	.....	92	25	26	15	48	0.74	.....	0.22	0.0	10	11	12	7	.....	Hiram Platt.
Darby	...do	3,825	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. A. Kerlee.
Dayton	Flathead	2,800	6	47.8	.....	85	24	22	6	47	1.50	.....	0.50	0.0	5	22	0	8	.....	Charles Frost.
East Anaconda§	Deer Lodge	5,500	5	48.6	.....	84	25	23	3†	38	0.50	.....	0.30	T.	2	9	13	8	w.	C. D. Demond.
Fortine	Lincoln	2,975	4	47.3	.....	87	25	18	14	57	0.72	.....	0.32	T.	11	9	12	9	w.	Mike Petery.
Hamilton	Ravalli	3,575	7	54.4	.....	89	24	26	15	45	0.20	.....	0.10	0.0	3	18	11	1	w.	J. B. Currie.
Hat Creek	Powell	6,000	...	.....	.....	.....	.....	.....	.....	.....	1.07	.....	0.30	4.5	8	9	15	6	w.	M. K. Landreth.
Kalispell	Flathead	2,965	11	47.8	+ 5.3	84	25	25	14	42	0.86	− 0.20	0.21	2.1	10	10	11	9	sw.	U. S. Weather Bureau.
Lost Creek	Deer Lodge	5,200	...	.....	.....	.....	.....	.....	.....	.....	0.11	.....	0.08	0.3	2	18	12	0	w.	Frank Henault.
McGinnis Meadows	Lincoln	.....	...	47.8[l]	.....	87[k]	25	16[l]	14	55[l]	.....	.....	.....	.....	[k]	[k]	5[k]	5[k]	.....	H. L. Beebe.
Missoula	Missoula	3,225	32	51.2	+ 6.2	90	25	26	15	50	0.66	− 0.32	0.42	.....	5	.....	.....	.....	sw.	U. S. Weather Bureau.
Ophir	Powell	8,800	...	.....	.....	.....	.....	.....	.....	.....	1.07	.....	.....	4.0	6	10	14	6	w.	E. S. Wilton.
Ovando	...do	4,207	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. B. Muchmore.
Philipsburg	Granite	5,275	7	48.6[a]	.....	89[a]	25	19[a]	15	54[a]	0.37	.....	0.12	2.0	4	17[a]	8[a]	4[a]	sw.	G. T. Bramble.
Plains	Sanders	2,475	12	49.4	+ 4.4	87	25	23	14	44	0.10	− 0.43	0.10	0.0	1	17	1	12	sw.	M. H. Pierce.
Pleasant Valley	Flathead	3,500	3	46.0	.....	83	25	20	14†	51	0.89	.....	0.20	0.0	10	12	12	6	w.	A. D. Stillman.
Polson	...do	2,920	2	.....	.....	.....	.....	.....	.....	.....	1.00	.....	0.45	0.0	3	.....	.....	.....	.....	F. P. Brown.
St. Ignatius	Missoula	2,700	4	51.6	.....	89	25	22	15	51	1.03	.....	0.21	0.5	11	12	5	13	w.	U. S. Reclamation Service.
St. Regis	...do	2,650	2	48.8	.....	93	25	20	15	60	1.35	.....	0.38	0.0	8	7	16	7	ne.	R. D. Lee.
Saltese	...do	3,600	6	.....	.....	.....	.....	.....	.....	.....	1.42	.....	0.42	5.0	5	24	0	6	w.	E. K. Tarbox.
Snowshoe	Lincoln	4,500	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. C. Riter.
Troy	...do	1,880	14	52.7	+ 6.7	93	25	22	7†	51	1.88	+ 0.65	0.67	T.	7	13	15	2	w.	W. E. Milnor.
Upper Lake McDonald	Flathead	3,200	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. F. Liebig.
Wyoming.																				
Afton	Uinta	6,200	6	43.8	+ 4.8	78	26	14	4	49	1.11	− 0.57	0.50	2.0	6	19	4	7	.....	A. V. Call.
Alta	...do	.....	1	42.2	.....	74	26†	4	4	42	1.49	.....	0.42	3.0	7	16	3	11	sw.	Mrs. Lucy Brown.
Bedford	...do	5,900	10	43.0	+ 5.7	76	26	10	5	52	0.37	− 1.08	0.19	1.9	4	17	6	7	w.	C. G. Heiner.
Snake River	Yellowstone Park	7,000	4	37.1	.....	71	25†	1	15	48	2.60	.....	0.60	20.0	10	19	6	5	w.	U. S. Army.
Nevada.																				
San Jacinto	Elko	.....	...	43.0	.....	78	24	12	14	52	0.86	.....	0.27	1.0	6	14	6	10	sw.	Moses Jones.
Utah.																				
Standrod	Boxelder	.....	6	48.8	.....	80	26	17	15	34	1.39	.....	0.65	1.0	6	18	6	6	.....	T. B. Jones.
Idaho.																				
Atlanta	Elmore	5,500	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Warder Lewis.
Albion	Cassia	.....	8	49.9	.....	85	24	14	15	52	1.46	.....	0.70	T.	5	15	10	5	w.	G. A. Axline.
Almo	...do	.....	2	.....	.....	.....	.....	.....	.....	.....	0.79	.....	0.42	T.	2	17	11	2	nw.	Wm. L. Eames.
American Falls	Oneida	4,341	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	O. H. Barber.
Blackfoot	Bingham	4,503	15	50.3	+ 4.7	85	25†	16	15	51	0.67	− 0.09	0.15	0.0	6	14	14	2	sw.	E. A. Dowd.
Blackfoot Dam	...do	.....	2	42.7	.....	78	26	11	4	44	0.77	.....	0.21	1.0	10	18	6	6	w.	N. W. Irsfield.
Blanche	Lincoln	.....	2	54.8[c]	.....	95[c]	25	23[c]	3	53[c]	.....	.....	.....	.....	.....	.....	.....	.....	e.	Mrs. Belle Hess.
Bock's Ranch	Elmore	3,500	...	.....	.....	.....	.....	.....	.....	.....	1.10	.....	0.46	0.0	6	.....	.....	.....	.....	William Bock.
Bogus Creek	Boise	4,200	2	.....	.....	.....	.....	.....	.....	.....	2.83	.....	0.83	0.0	8	12	14	4	.....	F. P. Ingraham.
Boise	Ada	2,770	25	55.9	+ 5.8	91	25	29	15	39	1.10	− 0.08	0.59	T.	7	14	7	9	nw.	U. S. Weather Bureau.
Bonners Ferry	Bonner	1,850	4	48.6	.....	88	25	22	14	49	1.60	.....	0.42	0.0	10	9	16	5	sw.	W. H. Heideman.
Boulder Mine	Boise	4,800	...	.....	.....	.....	.....	.....	.....	.....	2.01	.....	0.70	0.0	8	18	7	5	.....	Patrick Moriarty.
Buhl	Cassia	3,800	4	.....	.....	93	26	.....	.....	.....	0.82	.....	0.37	0.0	3	17	13	0	w.	H. J. Idema.
Burke	Shoshone	4,082	3	42.8	.....	83	25	17	14	45	4.38	.....	1.40	9.5	12	9	16	5	nw.	W. Alvin Hall.
Caldwell	Canyon	2,372	6	55.7	.....	91	25	23	4	52	1.05	.....	0.43	0.0	6	8	14	8	w.	Prof. Wm. J. Boone.
Camas	Fremont	4,815	2	.....	.....	85	24†	.....	.....	.....	1.44	.....	0.46	.....	8	14	15	1	sw.	Mrs. Edna Faulkner.
Cambridge	Washington	2,651	13	53.0	+ 3.3	90	25	26	4†	52	1.73	+ 0.49	0.70	T.	7	.....	.....	.....	w.	Chas. H. Shepherd.
Chesterfield	Bannock	5,424	....	47.7	+ 6.3	83	26	22	4	50	0.72	− 0.23	0.42	2.0	4	9	14	7	sw.	Chas. S. West.
Clawson	Fremont	.....	...	.....	.....	.....	.....	.....	.....	.....	0.89	.....	0.30	1.0	7	17	6	7	.....	E. J. Hopkins.
Cœur d'Alene	Kootenai	2,157	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jos. T. Scott.
Cottonwood Creek	Boise	4,000	...	.....	.....	.....	.....	.....	.....	.....	2.67	.....	1.02	0.0	6	.....	.....	.....	.....	Frank Hedrick.
Crawford	...do	4,300	3	45.8[c]	.....	82[c]	25	17[b]	4	51[c]	2.52	.....	0.80	.....	5	.....	.....	.....	w.	Mrs. Gertrude Kerby.
Culdesac	Nez Perce	1,520	2	54.2	.....	92	19†	29	15	55	2.68	.....	0.92	0.0	5	15	3	12	.....	R. R. Richmond.
Deary	Latah	.....	...	49.4	.....	90	25	22	14	49	.....	.....	0.88	5.0	.....	14	9	7	w.	H. M. Call.
Dent	Nez Perce	1,350	5	58.0	.....	97	25	31	30	45	2.22	.....	0.65	0.0	8	11	13	6	.....	Emil Schuessler.
Driggs	Fremont	6,097	3	42.8	.....	76	26	12	15	44	0.92	.....	0.28	2.0	6	14	5	11	sw.	Walter H. Durrant.
Edie	...do	.....	....	45.1	.....	78	25	20	3†	44	1.40	.....	0.55	4.0	3	23	4	3	s.	Geo. B. Edie.
Edwardsburg	Idaho	4,500	....	42.6	.....	78	25	10	4	54	.....	.....	.....	.....	.....	.....	.....	.....	nw.	W. A. Edwards.
Emmett	Canyon	2,350	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. L. Marvin.
Forney	Lemhi	.....	....	46.6	+ 5.7	85	27	14	3	54	0.40	− 0.78	0.15	3.0	6	9	7	14	sw.	M. B. Merritt.
Garden Valley	Boise	3,600	....	51.6[a]	.....	92[a]	25	25[a]	4†	57[a]	2.12	.....	0.54	0.0	8	15	9	6	w.	Mrs. Gertrude M. Ross.
Garnet	Elmore	2,575	11	59.4	+ 4.7	97	25	28	4	51	0.79	+ 0.10	0.73	0.0	2	21	3	6	e.	Asa A. Kenison.
Gilbert	Nez Perce	3,030	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Loomis.
Glenns Ferry	Elmore	2,569	2	57.2	.....	97	25	20	15	57	0.94	.....	0.48	0.0	6	22	5	3	nw.	I. E. Perkins.
Gooding	Lincoln	3,572	....	53.2	.....	94	25	18	15	57	0.77	.....	0.23	0.0	7	20	6	4	w.	John Krall, jr.
Grand Forks	Shoshone	3,000	....	42.6	.....	88	25	19	15	50	4.47	.....	1.32	.....	12	15	9	6	e.	Henry Kottkey.
Grandview	Owyhee	2,381	....	55.4	.....	93	24†	24	4	56	0.39	.....	0.17	0.0	5	18	7	5	nw.	N. G. Massey.
Green Timber	Fremont	.....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Otto Stegelmeier.
Grimes Pass	Boise	5,200	...	.....	.....	.....	.....	.....	.....	.....	2.21	.....	0.45	0.0	7	.....	.....	.....	.....	Joseph M. Clarke.
Guffey	Owyhee	2,381	2	59.8	.....	100	25	31	5†	51	0.57	.....	0.21	0.0	5	22	8	0	w.	Fred Perry.
Hailey	Blaine	5,347	6	49.7	.....	84	25	22	3	42	0.81	.....	0.34	T.	6	18	6	6	sw.	U. S. Forest Service.
Hotspring	Owyhee	2,752	5	58.4	.....	93	25	27	4†	50	1.30	.....	0.60	0.0	4	17	10	3	.....	J. M. Waterhouse.
Idaho City	Boise	4,000	10	.....	.....	.....	.....	.....	.....	.....	1.62	+ 0.34	0.60	0.0	6	.....	.....	.....	.....	Mrs. Emma Hammer.
Idaho Falls	Bingham	4,742	16	49.9	+ 5.7	86	26	20	15	51	0.06	− 0.96	0.04	0.0	2	15	6	9	ne.	Dr. T. M. Bridges.
Indian Valley	Washington	2,999	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. E. Henke.
Irwin	Bingham	6,500	....	47.0	.....	82	25†	14	14	49	1.10	.....	0.41	2.0	4	11	8	11	w.	Eva Johnston.
Kellogg	Shoshone	2,330	6	48.3	.....	92	25	24	14†	55	2.80	.....	0.74	1.0	9	14	1	15	sw.	W. McM. Huff.
Kirkham	Boise	.....	....	.....	.....	.....	.....	.....	.....	.....	2.60	.....	1.36	0.0	4	10	10	10	e.	Mrs. Josie B. West.
Kooskia	Idaho	1,261	2	53.5	.....	89	25	29	4	48	3.36	.....	0.63	0.0	9	10	12	8	w.	U. S. Forest Service.
Lake	Fremont	6,700	21	.....	.....	76	27†	18	14	44	0.20	− 0.76	0.20	2.0	1	.....	.....	.....	sw.	J. Sherwood.
Lakeview	Bonner	2,250	13	48.6	+ 2.8	80	18†	26	14	45	3.15	+ 1.39	1.30	0.0	10	9	5	16	sw.	E. D. Faust.
Landore	Washington	5,300	6	44.2	.....	79	25	17	4	44	4.18	.....	0.72	8.8	12	14	12	4	.....	Mrs. Emma L. Brown.
Lewiston	Nez Perce	757	17	55.8	+ 2.9	92	25	34	15	42	1.36	+ 0.23	0.35	0.0	11	5	13	12	e.	U. S. Weather Bureau.
Little Camas	Elmore	5,000	2	.....	.....	.....	.....	.....	.....	.....	1.43	.....	0.47	T.	5	9	14	7	w.	Solon McCoy.
Long Gulch	...do	4,500	...	.....	.....	.....	.....	.....	.....	.....	1.60	.....	0.62	0.0	6	17	11	2	.....	Mrs. Elizabeth A. Hjort
Loon Creek	Custer	6,000	....	42.4	.....	80	25	13	4	53	1.37	.....	0.30	0.5	13	15	11	4	sw.	Mrs. Emma Walter.
Lost River	Blaine	5,700	....	46.4	+ 4.0	85	26	19	13	46	0.06	− 0.46	0.06	0.0	2	.....	.....	.....	sw.	Mrs. Mary L. Lemon.
Lowry	Owyhee	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. D. Winter.
McCall	Boise	5,025	5	43.0	.....	84	25	7	4	54	2.03	.....	0.67	.....	6	20	3	7	s.	U. S. Forest Service.
Mackay	Custer	5,897	3	.....	.....	.....	.....	19	2	...	0.45	.....	0.11	0.0	7	13	0	17	nw.	Do.
Meadows	Washington	3 950	6	47.8	.....	87	25	21	4†	55	2.92	.....	0.68	1.5	10	13	10	7	.....	Chas. A. Hackney.

TABLE 1.—*Climatological data for April, 1910. District No. 12*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Idaho—Cont'd.																				
Milner	Cassia	4,097	7	53.5[b]		86[b]	25	18	15	43[b]	1.11		0.47	0.0	5	13	13	4	w.	R. A. Hanson.
Moscow	Latah	2,748	18	51.2		88	25	28	3†	36	1.77		0.59	0.8	11	12	9	9	sw	University of Idaho.
Mountainhome	Elmore	3,150	5	54.2		94	25	15	15	56	0.53		0.27	0.0	3	13	8	9	nw.	Mrs. Ellen Manion.
Murtaugh	Cassia		4	50.4[a]		88[a]	25	17[a]	15	54[a]	1.07		0.50	T.	3	22	4	4	w.	J. E. Steinour.
Nez Perce‡	Nez Perce	3,182	....	48.0		86	25	21	15	45			0.76			17	0	13	.....	P. Mitchell.
Oakley	Cassia	4,191	17	52.8	+ 5.6	90	25	20	15	45	0.15	− 0.75	0.10	T.	2	10	12	8	s.	John Adams.
O'Hara Bar	Idaho	1,400	....			95[b]	24	26[b]	15	58[b]									.....	U. S. Forest Service.
Orofino	Nez Perce	1,027	5	54.2		98	25	27	15	60	2.46		0.50	0.0	14	12	14	4	.....	Geo. Alteneder.
Payette	Canyon	2,159	20	54.2	+ 2.3	90	24	25	4†	52	0.97	+ 0.17	0.30	T.	6	14	5	11	n.	E. F. Allen.
Pebble	Bannock	5,277	....	46.1		81	26	21	16	49	1.06		0.46	1.5	6	16	11	3	sw.	Mrs. Fannie Say.
Pierson	Custer	7,000	2								2.07		0.62	10.0	4	21	0	9	.....	David P. Clarke.
Pine	Elmore	4,100	....																.....	Mrs. Jennie Potter.
Placerville	Boise	4,200	....																.....	James McDevitt.
Pleasant Valley	Ada	3,000	3	54.0		94	25	22	15	45	1.04		0.40	0.0	7	18	5	7	se.	C. E. Friedrich.
Pocatello	Bannock	4,483	11	51.9	+ 5.1	84	26	25	15	37	1.54	− 0.48	0.71	0.7	6	15	9	6	se.	U. S. Weather Bureau.
Pocatello Nursery	....do	5,396	3	45.8		81	25†	10	14	49	1.31		0.53	0.8	5	23	0	7	sw.	Mrs. Anna M. Wrensted.
Poplar	Bingham		2	47.0		84	26	10	14	44	1.08		0.22	1.0	7	16	6	8	sw.	Stanley Bybee.
Porthill	Bonner	1,665	22	49.6	+ 3.9	80	24	25	14	42	0.73	− 0.37	0.17	0.0	9	17	2	11	sw.	H. A. French.
Powers Ranch	Boise	4,300	....								1.72		0.86	0.0	7	18	7	5	w.	Mrs. Mona B. Powers.
Pyle Creek	....do	3,100	....								2.21		0.66	T.	6	14	9	7	nc.	Walter L. Cole.
Rattlesnake Creek	Elmore	4,000	....								1.84		0.60	T.	8	11	10	9	sw.	Richard M. Green.
Ruby Creek	Boise	4,400	....								2.48		0.98	0.0	9	10	14	6	w.	O. A. Hatter.
Rupert	Lincoln	4,204	4	51.7		85	24†	19	15	48	0.59		0.25	0.0	6	24	2	4	w.	Will Parry.
Salmon	Lemhi	4,640	5	51.0		88	25	14	15	58	0.41		0.11	0.2	6	15	12	3	w.	E. K. Abbott.
Salmon River Dam	Twin Falls		2	52.7		86	25	22	3	41	0.79		0.34	T.	7	13	9	8	nw.	Arch M. Gilbert.
Sheep Hill	Boise	5,000	2								1.39		0.47	T.	8					Clifford M. Gardner.
Shoshone	Lincoln	3,968	2	52.1		85	25	20	15	46	0.33		0.14	0.0	4	14	15	1	w.	O. A. Truman.
Silver City	Owyhee	6,280	3								1.90		0.53	T.	7	20	7	3	s.	A. D. Bradfield.
Smith Prairie	Elmore	5,200	....								1.61		0.34	1.0	8				.....	Wm. W. Newell.
Soldier	Blaine	5,200	....																.....	W. W. Leek.
Sugar	Fremont		3	47.7		83	25	14	15	54	0.62		0.24	T.	8	14	10	6	sw.	Geo. F. Webb.
Sunnyside	Elmore		....	53.8		92	25	23	15	49	0.91		0.65	0.0	3				nw.	E. A. Wilmot.
Tilden	Bingham	4,420	2																.....	Mrs. W. A. Edwards.
Tripod Mountain	Boise	4,300	....								1.62		0.65	T.	6	16	7	7	.....	Mrs. Verna Paddock.
Twin Falls	Twin Falls	3,825	5	53.4		91	25	22	15	53	0.73		0.40	0.0	4	19	11	0	w.	J. A. Waters.
Vernon	Fremont		13	47.4	+ 5.9	82	26	16	15	47	0.85	− 0.23	0.33	T.	7	15	12	3	sw.	A. M. Slatery.
Wallace	Shoshone	2,728	3	48.4		91	25	24	14	51	3.67		1.36		13				.....	U. S. Weather Bureau.
Wendell	Lincoln	3,400	2																.....	Chas. L. Dingler.
Washington.																				
Aberdeen	Chehalis	162	19	48.8	+ 0.4	76	22	33	14	36	5.28	− 1.41	1.72	0.0	14	3	24	3	w.	Carl S. Weatherwax.
Anacortes	Skagit	60	16	48.1		71	23	30	14†	34	1.37	− 0.81	0.33	0.0	11	11	14	5	.....	Douglas Allmond.
Baker	....do	200	4	50.6		93	23	32	18	51	4.49		0.92	0.0	11	10	8	12	.....	Robt. M. White.
Bellingham	Whatcom	60	15	49.0	0.0	72	30	32	17	38	1.98	− 0.15	0.68	0.0	8	17[a]	4[a]	8[a]	.....	Sanford B. Mayhew.
Blaine	....do	53	13	46.6	+ 0.4	70	26	30	17	31	2.64	− 0.01	0.66	0.0	13	11	10	9	w.	John W. Sheets.
Blewett	Chelan	2,200	....								0.74		0.40	4.0	6	20[f]	6[f]	4[f]	.....	John Burmeister.
Bremerton	Kitsap		....								2.36		0.50	0.0	12				.....	U. S. Navy Yard.
Brewster	Okanogan		....	53.4		88	24	32	15	39	0.18		0.12	0.0	2	13	13	4	s.	Mrs. H. F. Bertram.
Bumping Lake	Yakima		....																.....	U. S. Reclamation Service.
Cashmere	Chelan		....								0.36		0.25	0.5	2	12	14	4	nw.	Valley Power Co.
Cedar River	King		3								4.62		0.78	0.0	16	7	4	19	.....	George Landsburg.
Centralia	Lewis	212	17	50.3	+ 0.9	91	23	30	6†	51	3.32	− 0.22	0.88	0.0	10	8	18	4	s.	I. S. Turner.
Cheney	Spokane	2,351	11	51.2		86	25	19	8	40	0.88	− 0.17	0.29	0.0	5	14	13	3	sw.	Northern Pacific Ry.
Clealum	Kittitas	1,930	11	46.2	+ 1.9	85	25	25	15	49	1.18	− 0.22	0.69	6.0	6	17	9	4	sw.	J. A. Balmer.
Clearbrook	Whatcom	140	7	46.9		85	23	27	27†	47	2.93		1.60	0.0	6	11	3	16	s.	Geo. Gibbs.
Clearwater	Jefferson	135	14																.....	A. Ritchie.
Colfax	Whitman	2,300	21																.....	W. H. James.
Colville	Stevens	1,635	10	51.7	+ 4.8	92	25	23	14	54	0.48	− 0.48	0.19	0.0	6	12	4	14	sw.	W. L. Sax.
Conconully	Okanogan	2,300	10	50.8	+ 4.6	85	25	27	3	39	0.67	− 0.15	0.46	0.0	3	17	0	13	s.	Wm. Baines.
Cowiche	Yakima		....																.....	U. S. Reclamation Service.
Crescent	Lincoln	2,250	10	50.0[a]	+ 3.9	88[a]	25	20	2	47[a]	0.77	− 0.19	0.42	0.0	2	21	2	7	sw.	Otto Wollweber.
Davenport	....do	2,450	1	50.3		86	25	22	3	40	0.95		0.35	0.0	4	17	10	3	sw.	W. H. Reed.
Dayton	Columbia	1,700	24																.....	W. W. Hendron.
Detroit	Mason	30	2	49.7		86	23	31	15†	46	2.92		0.99	0.0	14	15	8	7	sw.	Walter O. Eckert.
Dixie	Walla Walla	5,000	1								3.93		1.02	4.0	14	10	7	13	sw.	T. Z. Andrews.
Duckabush	Jefferson	380	2	46.9[b]		84[b]	27[b]	27[b]	29[b]	41[b]	3.33		0.79	0.3	15	5[b]	7[b]	12[b]	sw.	E. J. Finch.
East Sound	San Juan	500	15	48.1	+ 0.7	71	23	31	5	30	2.89	+ 1.03	0.80	T.	10	17	8	5	nw.	Benj. E. Harrison.
Ellensburg	Kittitas	1,571	22	50.4	+ 2.6	92	25	25	15	53	0.37	− 0.21	0.21	0.0	3	17	9	4	nw.	R. Lee Barnes.
Ephrata	Grant	1,265	7	54.8[a]		90[a]	25†	21	1†	57	0.00		0.00	0.0	0	18[a]	4[a]	7[a]	s.	T. J. Cook.
Forks	Clallam	480	1	48.6[c]		77[b]	22	30[c]	17†	38[c]	6.92		1.88	T.	19	8[a]	12[a]	9[a]	s.	E. A. Markham.
Fort Simcoe	Yakima	1,427	16	52.9	+ 0.6	92	25	20	14	50	1.00	+ 0.60	0.50	0.0	3	18	9	3	.....	Frank C. Hill.
Goat Lake	Shohomish	2,900	1								5.50		1.64	19.5	16				.....	C. M. Mackintosh.
Gold Creek	Yakima	2,600	1								0.89		0.36	3.5	3	8	15	7	w.	John W. Anderson.
Goldendale	Klickitat	1,600	4																.....	Klickitat Co. Abstract Co.
Granite Falls	Snohomish	397	7								5.15		0.80	0.0	16	6[a]	9[a]	14[a]	nw.	C. H. Cleaver.
Hatton	Adams	1,100	5	55.6		95	25	26	14†	47	0.89		0.47	0.0	5	12	7	11	sw.	Dr. A. V. Marion.
Huntsville	Columbia	1,400	2								1.63		0.38	0.0	8	18	3	9	.....	Dr. B. Hill.
Irene Mountain	Okanogan	3,015	1								0.18		0.09	0.0	4	6	11	13	sw.	Manda Shain.
Kennewick	Benton	367	15	57.9	+ 3.2	95	18†	27	15	53	0.23	− 0.03	0.10	0.0	5				.....	L. W. Soth.
Kettle Falls	Stevens	1,265	1	52.8		91	24	25	14	50	0.41		0.19	0.0	4	11	14	5	.....	Harry H. Cole.
Kiona	Benton	430	5	57.5		93	25	28	15	49	0.34		0.23	0.0	3	17	8	5	sw.	Dr. F. S. Hedger.
Kosmos	Lewis	775	4																.....	J. A. Ulsh.
La Center	Clarke	250	13	48.6	− 1.1	85	24	28	14	45	3.68	+ 0.34	1.00	0.0	9	8	14	8	sw.	Joseph Brothers.
La Crosse	Whitman	1,400	1	54.0		92	25	29	14†	45	1.66		0.35	0.0	10	18	6	6	sc.	M. E. Schreck.
Lake Clealum	Kittitas	2,171	1								1.56		0.67	5.0	8	6	9	15	nw.	U. S. Reclamation Service
Lake Kachess	....do	2,235	2	43.0		81	25	26	14	47	2.93		1.20	20.0	10	12	11	7	c.	Do.
Lake Keechelus	....do	2,479	2								5.42		1.40	14.0	10	6	5	19	.....	Do.
Lakeside	Chelan	1,116	19	52.8	+ 2.3	86	25	34	14†	36	0.08	− 0.64	0.05	0.0	2	6	20	4	w.	W. H. Van Meter.
Laurel	Klickitat	1,900	....								2.46		0.80	1.0	8	9	19	2	w.	Mrs. Minnie E. Strout.
Laurier	Ferry		....	52.5[e]		92[e]	24	17[e]	2	55[e]	0.44		0.14	0.0	5	5[e]	8[e]	12[e]	s.	Mrs. J. S. Myers.
Lester	King	1,614	6	49.4		87	24	28	30	48	3.20		0.95	12.0	10	7	5	18	w.	W. W. Clabaugh.
Lone Tree	Chehalis	9	1					38	1†		5.77		1.65	0.0	19	5	12	13	nw.	U. S. A. Engineer Corps.
Longmires Springs	Pierce	2,800	1																.....	U. S. Forest Service.
Lost Creek	Okanogan	3,125	1								0.20		0.12	0.0	2	13	12	5	w.	P. H. Leese.
Lyle	Klickitat	600	17																.....	Wm. Morginson.
McCumber's Ranch	Yakima	2,182	1																.....	Mrs. Mary McCumber.
Mottinger	Benton	307	10	59.7	+ 3.7	95	25	33	14	43	0.28	− 0.30	0.14	0.0	5	21	4	5	w.	G. H. Mottinger.
Mount Pleasant	Skamania	650	10	53.0	+ 2.0	87	23	32	14	38	4.42	+ 0.62	0.90	0.0	14	16	1	13	w.	F. M. Grout.

TABLE 1.—*Climatological data for April, 1910. District No. 12*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.				Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Washington—Cont'd.																				
Moxee	Yakima	1,000	18	54.4[a]	+ 4.1	95[a]	25	21[a]	3	51[a]	0.17	− 0.29	0.07	0.0	3	6	21	3	w.	Henry B. Scudder.
Newport	Stevens			48.7		91	25	21	14	55	1.95		0.67	4.5	9	16	9	5	sw.	Chas. M. Talmadge.
North Head	Pacific	211	8	47.1	− 0.4	57	15	38	6	15	3.44	+ 0.22	1.29	6.0	14	6	13	11	nw.	U. S. Weather Bureau.
Northport	Stevens	1,950	11	51.4		89	24	23	13†	53	0.40	− 0.63	0.20	0.0	3	18	9	3		John Palm.
North Yakima	Yakima	1,076	1	55.4		90	24†	28	3	41	0.08		0.05	0.0	2	18	8	4	nw.	Albert Bender.
Nutland	Klickitat		1	55.8		91	24†	29	26	40	0.52		0.32	0.0	3					J. R. Shepard.
Odessa	Lincoln	1,540	7	54.2		93	26	24	14	49	0.40		0.40	T.	1	8	15	7	sw.	Wm. U. Neeley.
Olga	San Juan	50	20	47.2	− 0.8	68	23	32	6	26	1.93	− 0.11	0.38	0.0	11	10	10	10	sw.	Cecil S. Willis.
Olympia	Thurston	200	32	48.9	0.0	87	23	29	14†	48	3.62	− 0.17	1.10	0.0	11	9	15	6	nw.	M. O'Connor.
Omak	Okanogan		1	55.6		92	25	24	14	48	0.00		0.00	0.0	0					Wm. G. Tait.
Oroville	....do	922	1	53.8		96	24†	22	14	48	T.		T.	0.0	0	7[a]	17[a]	5[a]	s.	A. M. Dufield.
Peola	*Garfield*	*5,000*	1								2.06		0.56	6.1	13	15	5	10	sw.	Samuel Gruell, *sr.*
Pomeroy	....do	1,500	18	54.8	+ 4.4	94	25	30	4	41	1.23	0.00	0.60	T.	7	14	12	4	w.	Peter McClung.
Port Crescent	Clallam	259	15	42.9	− 1.8	67	23	29	17	28	1.58	− 0.94	0.42	T.	16	3	23	4	nw.	U. S. Weather Bureau.
Port Townsend	Jefferson	80	20	47.9	− 0.6	71	23	35	6†	31	1.27	− 0.40	0.43	0.0	15	9	7	14	w.	Frank Plummer.
Pullman	Whitman	2,550	18	52.6	+ 5.3	88	25	29	1†	34	2.26	+ 0.87	0.75	1.0	8	13[c]	8[c]	6[c]	sw.	State Agricultural College
Quinialult	Chehalis	300	3	48.2		80	24	31	14†	37	6.33		1.45	0.0	19	7	16	7	w.	A. V. Higley.
Republic	Ferry	2,628	10	47.2	+ 1.9	85	24	19	14	50	6.35		0.09	0.0	8	15	4	11	nw.	Geo. B. Stocking.
Rex Creek	Chelan	1,135	3			78[a]	29	33[a]	14	32[a]	0.39		0.15	0.0	4	6[b]	0[b]	12[b]	nw.	James W. Nicol.
Ritaville	Adams	1,825	11								1.09	+ 0.67	0.64	0.0	6					Northern Pacific Ry.
Rock Lake	Whitman	1,750	4	51.9		88	24	27	14	40	1.30		0.44	0.0	7	16	7	7	sw.	P. M. Ramsey.
Rosalia	....do	2,425	18	50.5	+ 4.3	85	25	26	3	39	1.52	+ 0.11	0.80	1.5	6	9	10	11	sw.	Hans Mumm.
Russells Ranch	Yakima	2,870	1																	Maggie M. Russell.
Scenic Hot Springs	*King*	2,021																		J. V. Prosser.
Seattle	....do	123	19	49.4	0.0	83	23	35	2	34	2.41	− 0.27	0.53	0.0	14	6	6	18	s.	U. S. Weather Bureau.
Sedro-Wooley	Skagit	38	13	53.4	+ 3.0	94	23	31	17	51	3.65	+ 0.46	1.11	0.0	15	5	13	12		Mrs. H. L. Devin.
Sixprong	Klickitat	1,240	3	56.6		93	25	30	14	37	0.71		0.40	0.0	6	11	7	12	sw.	C. E. Comstock.
Skagit Power Dam	Whatcom	123		48.8		86	25	31	17	44	5.00		1.56	0.0	15					Skagit Power Co.
Snohomish	Snohomish	50	16	48.6[d]	− 0.9	88[d]	23	31	15†	48[d]	2.85	− 0.59	0.47	0.0	15	9	7	14	nw.	Warren Hodge.
Snoqualmie Falls	King	667	11	49.8		86	25	32	30	45	4.21	+ 0.01	0.73	0.0	18	11	0	19		O. N. Wiswell.
Snyders Ranch	Okanogan	2,200	1								0.08		0.06	0.0	2	18	10	2	sw.	Geo. M. Snyder.
South Bend	Pacific	16	15	47.8	− 1.4	77	22	31	14	37	5.15	− 2.64	1.45	0.0	15	10	6	14	w.	Miss Winifred Eichner.
Spokane	Spokane	1,943	29	52.0	+ 4.3	87	25	30	3	38	1.32	+ 0.03	0.57	T.	9	5	9	16	sw.	U. S. Weather Bureau.
State University	King	170	1	48.3		83	23	35	2	38	2.66		0.53	0.0	13	9	8	13	s.	University of Washington.
Stokes Ranch	Okanogan	2,670	1								0.13		0.13	0.0	1	10[a]	14[a]	5[a]	sw.	Amos Stokes.
Sullivan Lake	Stevens	2,700									1.09		0.44	0.0	10	15	2	13		U. S. Forest Service.
Sumner	Pierce	77	2	49.0		86	23	31	15†	48	3.04		0.71	0.0	15	9	7	14	w.	H. E. Thompson
Sunnyside	Yakima	740	15	55.9	+ 4.4	94	25	24	14	49	0.44	+ 0.09	0.30	0.0	3	11	14	5	sw.	U. S. Reclamation Service.
Tacoma	Pierce	213	24	49.6	+ 0.7	85	23	34	2	39	2.86	+ 0.10	0.87	T.	12	10	7	13	sw.	U. S. Weather Bureau.
Tatoosh Island	Clallam	86	25	45.4	− 1.4	58	23	35	2	13	4.18	− 1.88	0.91	T.	19	5	7	18	s.	Do.
Tieton	Yakima	2,000	1	48.6		84	24†	27	14	44	1.05		0.56	2.3	8	19	5	6	w.	U. S. Reclamation Service.
Touchet	Walla Walla	556	3	56.3		91	24†	29	14†	48	0.72		0.23	0.0	6	10	11	9	sw.	D. W. Dorrance.
Touchet Ridge	Columbia	2,500	1								3.63		0.94	4.0	6	13	9	8	n.	R. H. King.
Trinidad	Grant	900	6	56.8		90	24†	34	13	38	0.26		0.20	0.0	2	19	8	3	nw.	J. C. Wheeler.
Twisp	Okanogan	1,619	7																	J. S. Allen, jr.
Tyee	Chelan	2,000	1								0.22		0.10	0.0	4	7	16	7	w.	Elias McCrea.
Vancouver	Clarke	100	35	53.2	+ 1.5	90	23	31	14	45	3.41	+ 0.85	0.87	0.0	12	6	15	9	nw.	A. A. Quarnberg.
Vashon Island	King	110	21	48.8	0.0	81	22	33	16	40	2.76	− 0.26	0.65	0.0	14	12	1	17	s.	*Miss Gertrude McClintock*
Wahluke	Grant	410	6	59.6[c]		93[c]	25	33[c]	15	42[c]	0.13		0.13	0.0	1	12	6	12		F. C. Koppen.
Wallace	Okanagon	4,006	1								0.25		0.12	0.0	4	11	18	1	s.	G. A. Wallace.
Walla Walla	Walla Walla	1,000	26	57.0	+ 4.2	92	25	34	14	36	1.47	− 0.23	0.44	0.0	8	11	13	6	s.	U. S. Weather Bureau.
Waterville	Douglas	2,624	20																	O. R. Hopewell.
Wenatchee (near)	Chelan	1,169	11	50.4	+ 2.4	84	24†	30	2	33	0.17	− 0.57	0.16	1.0	2	10	11	9	w.	Geo. A. Pitcher.
West Branch	Stevens	2,600																		U. S. Forest Service.
Wilbur	Lincoln	2,203	11	51.4	+ 5.8	87	24	26	3†	42	0.55	− 0.31	0.45	2.0	2	12	11	7	sw.	Rollin J. Reeves.
Yale	Cowlitz	375	3	51.2		89	22†	28	14	46	6.05		1.38	0.0	14	12	8	10	sw.	L. F. Williams.
Zindel	Asotin	715	8																	M. W. Zindel.
Oregon.																				
Albany	Linn	214	28	51.4	+ 0.4	90	23	31	14	43	1.89	− 1.18	0.30	0.0	12	15	7	8	n.	F. M. French.
Ashland	Jackson	1,940	22	55.4	+ 5.6	89	24	31	14	43	1.33	− 0.49	0.42	0.0	6	7	14	9	w.	F. H. Carter.
Astoria	Clatsop	11	48	49.5	− 0.2	69	17†	37	6†	30	5.05	− 1.21	1.34	0.0	15	15	4	11	nw.	Irving Club.
Baker City	Baker	3,466	20																	U. S. Weather Bureau.
Bay City	Tillamook	14	15	48.6	− 0.3	66	17†	31	28	34	5.24	− 1.53	1.10	0.0	17	10	10	10	nw.	J. O. Bozarth.
Bend	Crook	3,629	8																	F. O. Minor.
Birch Creek	Wheeler	2,900	1	55.1[d]		88[d]	23†	26[d]	4	39[d]	0.36		0.32	0.0	2	14	7	5	w.	F. S. Matteson.
Black Butte	Lane	1,200	9	50.2		84	24	29	3	35	2.02		0.50	0.0	9	15	8	7	ne.	William Harris.
Blalock	Gilliam	235	11	59.8	+ 4.1	95	25	34	14	40	0.24	− 0.30	0.20	0.0	2	9	10	10	w.	Geo. W. Long.
Buckhorn Farm	Josephine	1,300	12	56.9[a]	+ 6.3	90[a]	22†	28[a]	3	55[a]	1.21	− 1.88	0.45	0.0	7	13[a]	9[a]	7[a]	s.	E. F. Meissner.
Cascade Locks	Hood River	100	19	53.4	+ 1.6	86	23	31	14	38	5.14	− 0.61	1.18	0.0	15	13	7	10	w.	Val. W. Tompkins.
Casadero	Clackamas	514	1	54.2		88	23	34	15	44	3.77		0.81	0.0	17	9	5	16	nw.	Alf Drill.
Condon	Gilliam	2,888	2	49.0		86	25	25	14	40	0.34		0.22	0.0	3	15	10	5	ne.	C. H. Williams.
Connor Creek	Baker	1,800																		R. C. Eisele.
Corvallis	Benton	600	21	50.6	+ 0.5	87	22	30	14	46	2.47	− 0.38	0.46	0.0	10	9	4	17	sw.	Oregon Agricultural Coll.
Dayville	Grant	1,500	15	56.3	+ 6.3	95	24	25	4	59	0.33	− 0.65	0.13	0.0	6	15	10	5	nw.	Dr. Campbell-Martin.
Doraville	Columbia	600	8	48.8[a]		82[a]	23†	30	14	38[a]	3.84		0.85	0.0	16	8	6	16	nw.	Jos. Hackenberg.
Drain	Douglas	300	7	54.0		91	24	31	14	50	2.30		0.53	0.0	9	10	11	9	sw.	Ira Wimberly.
Echo	Umatilla	625	5	56.8[c]		93[c]	25	30[c]	15	42[c]	0.21		0.09	0.0	5	13	7	7	w.	R. B. Stanfield.
Ella	Morrow	830	5	56.2		90	24†	29	13†	47	0.36	− 0.13	0.11	0.0	6	11	14	5	sw.	C. F. Troedson.
Eugene	Lane	449	20	52.0	+ 1.8	86	24†	32	14	39	1.74	− 0.94	0.38	0.0	11	13	11	6	nw.	F. L. Barker.
Fairview	Coos	142	12	51.7	+ 1.4	86	17†	32	27	48	4.43	− 0.07	0.98	0.0	10	14	4	12	nw.	William Bettys.
Falls City	Polk	355	12	51.2	+ 2.2	88	24	28	28	50	5.38	− 1.06	1.68	0.0	11	14	16	10	e.	Chas. F. Vick.
Forest Grove	Washington	220	20	51.6	+ 2.2	86	24	26	21	47	3.19	+ 0.31	0.81	0.0	9	4	13	13	s.	Pacific University.
Gardiner	Douglas	72	20	51.7	+ 1.5	78	22	33	14	37	4.92	− 1.11	1.22	0.0	14	12	10	8		Hon. J. S. Gray.
Glendale	....do	1,441	5	56.6		89	22†	31	27	46	3.01		1.18	0.0	8	11	14	5	nw.	C. Olson.
Glenora	Tillamook	575	18	49.4	+ 1.7	86	22†	27	27	51	7.19	− 2.97	2.00	0.0	14	8	6	16	sw.	Mrs. Jennie Reeher.
Gold Beach	Curry	40	8	49.6		67	17	33	14	30	3.05		0.80	0.0	7	17	0	13	nw.	C. Dewey.
Granite	Grant	4,680	4	46.2[c]		82[c]	24†	14[c]	4	52[c]	0.40[c]		0.15[c]	0.0	4	3[b]	12[b]	7[b]	se.	L. M. Ford.
Grants Pass	Josephine	956	21	55.1	+ 4.0	92	23	27	4†	53	0.78	− 0.89	0.44	0.0	8	10	12	8	sw.	John B. Paddock.
Grass Valley	Sherman	2,381	8	51.8		89	25	27	28	48	0.56		0.42	0.0	3	14	4	12	sw.	Oreg. Ry. & Navigation Co
Greenleaf	Lane	250	10																	Wm. H. Wheeler.
Grindstone	Crook	5,000		46.6		81	25	15	14†	50	0.35		0.10	0.5	5	14	6	10	s.	Orrin C. Mills.
Headworks	Clackamas	719	4	50.7		87	22	32	4	47	5.03	− 0.68	0.95	0.0	16	10	6	14	sw.	Portland Water Works.
Heppner	Morrow	1,950	21	53.4[c]	+ 5.0	92[c]	25	26[c]	14	40[c]	0.73	− 0.37	0.21	T.	8	14	8	8	nw.	Ralph Kenton.
Hermiston	Umatilla	450	3	59.2[a]		95[a]	25	27[a]	15	48[a]	0.34		0.10	0.0	6	13	9	7		C. W. Kellogg.
Hood River	Hood River	243	19	52.9	+ 3.4	89	24	31	15	50	0.45	− 1.59	0.25	0.0	5	19	1	10	w.	H. L. Hasbrouck.
Huntington	Baker	2,110	9	55.2		91	24	30	13	50	1.95		0.85	0.0	4	14	9	7		J. M. Day.
Jacksonville	Jackson	1 640	21	56.0	+ 5.0	89	17†	30	14	47	0.59	− 0.70	0.35	0.0	4	18	3	9		E. Britt.

TABLE 1.—*Climatological data for April, 1910. District No. 12*—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, .01 inch or more.	Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.		Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
Oregon—Cont'd.																				
Joseph	Wallowa	4,400	21	43.6	+ 1.8	82	25	19	14	40	2.24	+ 0.85	0.33	2.5	11	7	7	16	n.	F. F. McCully.
Le Grande	Union	2,784	24	52.4	+ 4.7	88	25	25	15	45	1.62	+ 0.08	0.54	0.0	10	13	9	8	se.	W. A. Worstell.
Madras	Crook	2,150	1																	Robert Rea.
Marshfield	Coos	12	6	50.6		74	17	32	14	37										Mrs. E. I. Mingus.
McKenzie Bridge	Lane	1,400	7	51.4		91	22	24	4	57	2.58		0.60	0.0	14	11	0	19	w.	Geo. Frissell.
McMinnville	Yamhill	180	22	52.0	+ 1.7	85	22†	30	14	46	3.46	+ 0.38	0.82	0.0	13	13	7	10	sw.	J. H. Pruett.
Mikkalo	Gilliam	1,600	4	53.0		89	24	28	14	44	0.58		0.25	0.0	7	19	5	6	w.	Frank Little.
Miramonte Farm	Clackamas	195	21	53.0	+ 2.4	86	24	30	14	44	3.64	+ 0.56	0.82	0.0	12	14	5	11	sw.	G. M. Muecke.
Monroe	Benton	350	13	52.2	+ 1.7	88	23	30	14	44	2.33	− 0.15	0.84	0.0	9	10[b]	6[b]	12[b]	sw.	L. A. Peek.
Mount Angel	Marion	485	24	53.5	+ 2.4	85	23	29	2	34	3.14	− 0.39	0.65	0.0	8	12	4	14	sw.	Dr. W. F. Fisher.
Mount Hood	Hood River	1,650									1.74		0.80	0.0	8	17	6	7	w.	S. G. Babson.
Mountain Park	...do	1,550	4	50.2		87	24	28	14	42	2.98		1.20	T.	10	8[a]	7[a]	14[a]	w.	M. Markley.
Musick	Douglas	5,000		43.2		78	23†	11	3†	46	4.32		0.71	14.5	12	15	2	13	sw.	Alex. Lundburg.
Newport	Linton	69	22	48.8	− 0.2	66	17	34	14	26	4.38	− 0.98	1.03	0.0	15	3	17	10	nw.	William Matthews.
Pendleton	Umatilla	1,272	20	56.4	+ 4.8	94	25	27	15	46	1.04	+ 0.07	0.30	0.0	10	11	15	4	sw.	H. F. Johnson.
Pilot Rock	...do	1,872	1	55.4		90	25	29	15	46	1.02		0.23	T.	9	10	17	3	sw.	John P. McManus
Pompeii	Clackamas	3,580	15			77	24	19	14	33			1.11	12.0	6	10	4	7	sw.	O. C. Yocum.
Portland	Multnomah	57	38	53.8	+ 0.9	89	22	34	14	35	3.78	− 0.70	1.32	0.0	12	7	9	14	sw.	U. S. Weather Bureau.
Prineville	Crook	3,000	13	53.0	+ 6.5	92	23†	19	14	56	0.57	− 0.24	0.25	0.0	5	17[a]	9[a]	3[a]		
Prospect	Jackson	2,750	4	51.2		88	17†	23	14	54	1.78		0.55	1.0	10	12	11	7	sw.	E. F. Graham.
Ramsey	Wasco	1,350		50.3		84	24	26	14	39	1.10		0.36	0.0	5	13	9	8	w.	Mrs. Iva B. Collins.
Range	Grant	3,500	1	41.0		85	23†	10	11	57	0.70		0.32	1.0	5	10	12	8		Craig Thom.
Richland	Baker	2,350	8	53.0		90	25	24	4	52	0.78		0.25	0.0	5	16	6	8		C. G. Morgan.
Riverside	Malheur	3,000	11	56.6	+ 8.1	90	24	19	14	56	0.60	− 0.02	0.35	0.0	3	15	11	4	w.	Mrs. Leah Fairman.
Roseburg	Douglas	523	33	54.2	+ 2.8	92	24	32	14	46	1.73	− 0.73	0.52	0.0	11	11	13	6	nw.	U. S. Weather Bureau.
Salem	Marion	120	20	52.6	+ 2.0	84	23†	34	14	36	2.26	− 0.74	0.44	0.0	11	6	5	19	nw.	M. P. Baldwin.
Siskiyou	Jackson	4,115	1	50.2		81	23†	26	3	34	0.95		0.48	0.0	4	12	8	10	e.	Lewis F. Bates.
Sparta	Baker	4,150	17	49.3	+ 5.6	81	24	23	14	38	0.45	− 1.01	0.20	3.0	5	18	10	2	w.	Hon. J. A. Wright.
Stafford	Clackamas	400	13	51.8	+ 1.4	86	23†	30	14	35	4.42	+ 0.92	0.99	0.0	14				sw.	John P. Gage.
The Dalles	Wasco	112	35	54.8	+ 1.3	90	24	30	14	41	0.83	+ 0.17	0.30	0.0	5	15	4	11	w.	S. L. Brooks.
The Heads	Curry	300	5																	Willis T. White.
Toledo	Linton	50	20	51.4	+ 2.3	83	22	28	1	41	6.66	+ 0.80	1.20	0.0	12	16	10	4	n.	C. B. Crosno.
Umatilla	Umatilla	340	14	59.0	+ 4.4	95	24	32	15	43	0.20	− 0.36	0.05	0.0	6	13	3	16	w.	Mrs. Helen T. Duncan
Vale	Malheur	2,450	18	55.6	+ 7.1	93	25	21	16	55	0.60	− 0.22	0.34	0.0	3	22	8	0	nw.	H. P. Osborn.
Van	Harney	3,506	4	51.0[d]		88[a]	24	21[d]	15†	54†	0.47		0.42	0.0	2	12	13	5	nw.	Geo. Howe.
Wallace Orchard	Polk	170	1	51.6		86	23†	30	14	44	2.65		0.70	0.0	13	7	15	8		Chas. A. Parks.
Wallowa	Wallowa	2,935	7	50.0		89	25	25	15	53	2.85		0.58	1.0	13	10	3	17	nw.	L. J. Coverstone.
Wasco	Wasco	1,500	2	56.0		90	25	35	15	40	0.90		0.30	0.0	5	14	7	9	w.	A. J. Swift.
Warmspring	Crook	1,600	8	55.1		91	24	25	12†	48	0.54		0.25	0.0	4	21	5	4	nw.	C. C. Covey.
Weston	Umatilla	1,800	20	54.4	+ 6.1	94	25	30	14	45	1.18	− 0.94	0.25	0.0	12	8	7	15	nw.	M. A. Baker.
Williams	Josephine	1,368	17	54.4	+ 4.6	92	23	28	14	54	0.86	− 0.65	0.45	0.0	5	9	8	13	n.	J. M. John.

[a], [b], [c], etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
* Precipitation included in that of the next measurement.
** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
† Also on other dates.
‡ Separate dates of falls not recorded.
§ Data are from standard instruments not supplied by the U. S. Weather Bureau.
§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
‖ Estimated by observer.
‖‖ Precipitation for the 24 hours ending on the morning when it is measured.
T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for April, 1910. District No. 12, Columbia Valley.*

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Montana.																																	
Anaconda	Missoula	T.	.15	T.			T.		T.	T.		T.	.08		T.						T.						T.		.12		T.		0.35
Bison Mountain	do		T.	.50			.02			.03											T.									.28			0.83
Columbia Falls	Flathead																																
Como	Bitter Root	.12	.22				.06	.03	.03	.03	.03		.02																.04	.16			0.74
Darby	do																																
Dayton	Flathead			.25					.25		.25	.25																		.50			1.50
East Anaconda‖	Missoula	T.	.20	T.			T.		T.	T.		T.	T.	T.	T.						T.				T.		T.		.30		T.		0.50
Fortine	Flathead	T.	.32	.02			.05	T.	.03	.05	.04	.01		.02	T.						.09								.08	.01			0.72
Hamilton	Bitter Root								.05			.05																	.10				0.20
Hat Creek	Missoula	*	.06	.30			.05	T.	T.		.11	.09	T.	.19							T.				T.				.22	.05			1.07
Kalispell	Flathead	.05	.11	.21				T.	.15	.09	.01	.04	.03	T.							.10								.07				0.86
Lost Creek	Missoula			.03				T.		T.																		.08					0.11
McGinnis Meadows	Kootenai																																
Missoula	Missoula	.03	.42	T.					.03	T.	.10	.08		T.	T.						T.								T.				0.66
Ophir	do	*	*	.73			T.		.05	.05		.07			.06														.11	T.			1.07
Ovando	do																																
Philipsburg	do	T.	.12	.11						T.		T.			T.														.12	.02			0.37
Plains	Columbia		T.					T.	T.	.16											T.												0.10
Pleasant Valley	Kootenai	T.	.20	T.				.06	.10	.15	.04	.06	.02	.02							.26								.04				0.89
Polson	Flathead								.45				.40								.15												1.00
St. Ignatius	do	.01	.69	.14	T.	T.				.18	.03	.21	.06	.02							.20								.07	.02			1.03
St. Regis	Missoula	.06	.38					.17	.18	.25	.02	.10																	.19				1.35
Saltese	do	.12	.42					.23	.37						.28																		1.42
Snowshoe	Kootenai																																
Troy	do		.67				.60	.15	.23	.12	.08	.03	T.	T.							T.												1.88
Upper Lake McDonald	Flathead																																
Wyoming.																																	
Afton	Snake			.40									.02	.08	.06															.05	.50		1.11
Alta	do	.01	.15	.26									.42	.29	.26							.16											1.49
Bedford	do		.05	.19				T.							.05															.08	T.		0.37
Snake River	do	.20	.20	.60				.20			.20			.40	.20							.20								.20	.20		2.60
Nevada.																																	
San Jacinto	Snake			.04			.07			.18		.21	T.								T.									.27	.09		0.86
Utah.																																	
Standrod	Raft	.13		.17			.03						.03			T.													.05		.38		1.39
Idaho.																																	
Atlanta	Boise																																
Albion	Upper Snake	T.	.25	.30			T.																					T.	.70	.03	.18		1.46
Almo	do		T.	T.								.37										T.									.42		0.79
American Falls	do																																
Blackfoot‖	do	.03	.11	.13							T.										.15							T.	.15		.10		0.67
Blackfoot Dam	do		T.	.12			T.	.01			.07		.01		.01						.05	.02							.21	.08	.19		0.77
Blanche	Middle Snake																																
Bock's Ranch	Boise	.23	.24				.04																						.46	.02	.11		1.10
Bogus Creek	Payette	.40	.54				.07					.47									.08								.83	.27	.17		2.83
Boise	Boise	.11	.14	T.			.08				T.	.04									.01								.59		.13		1.10
Bonners Ferry	Upper Columbia	T.	.42	.06				.10	.14	.26	.09	.08	.05								.36								T.	.04			1.60
Boulder Mine	Boise	.16	.70	.09							T.	.14									.01								.58	.12	.21		2.01
Buhl	Upper Snake		.20							T.																	T.	.37		.25			0.82
Burke	Upper Columbia	.15	1.40	.17			.48	.05	.77	.37		.15	.08	.02							.53								.21				4.38
Caldwell	Boise	.08	.06				.04		T.			.43																	.25		.19		1.05
Camas	Lost River Region	.46							.10	.04	.21										T.						T.	.06	.31	.20	.06		1.44
Cambridge	Middle Snake	.31	.25	.02			.25					.70																	.13	.07			1.73
Chesterfield	Upper Snake		T.	.10									.09		T.						.11								T.		.42		0.72
Clawson	do			.01									.10	.20							.08								.30	.10	.10		0.89
Cœur d'Alene	Upper Columbia																																
Cottonwood Creek	Boise	.25	.50																									.50	1.02	.35	.05		2.67
Crawford	Payette	.50	.52									.80																	.50		.20		2.52
Culdesac	Clearwater			.80			.27		.63	.06												.92											2.68
Deary	do																																
Dent	do	.40	.65					.31	.10	.09	.21										.28								.18				2.22
Driggs	Upper Snake	.06	.23	.07			T.				T.		.05	T.	.23						T.							.28					0.92
Edie	Lost River Region														T.						T.								.30	.55	.55		1.40
Edwardsburg	Salmon																																
Emmett‖	Payette																																
Forney	Salmon		.10	.15								.05									.05								.02	.03			0.40
Garden Valley	Payette	.34	.54	.04			.18		T.			.33																	.30	.09	.30		2.12
Garnet	Middle Snake	.06																											.73				0.79
Gilbert	Clearwater																																
Glenns Ferry	Middle Snake	.10	.48	.05			.03																						.20		.08		0.94
Gooding	Wood-Malad	.01	.20	.10			T.			T.	.23																		.10	.02	.11		0.77
Grand Forks	Upper Columbia	.24	1.32		.14		.55	.31	.77	.25	.04	.26	.08								.33								.18				4.47
Grandview	Middle Snake	T.	.02				.03					.03																	.17		.14		0.39
Green Timber	Upper Snake																																
Grimes Pass‖	Boise	.41	.45				.31						.05																.41	.42	.16		2.21
Guffey	Middle Snake	.12	.06				.11				T.																		.21		.07		0.57
Hailey	Wood-Malad	.06	.34	.11			T.				.10	.03	T.																T.		.17		0.81
Hotspring	Middle Snake	T.	.60				.09																						.46		.15		1.30
Idaho City	Boise	.22	.60	T.			.16					.19																	.28	.17			1.62
Idaho Falls	Upper Snake			.04		T.								T.														T.	.02				0.06
Indian Valley‖	Middle Snake																																
Irwin	Upper Snake		.39	T.										T.	.44						T.									.25	.06		1.11
Kellogg‖	Upper Columbia		.74	.67			.29		.34	.24	.10	.14									.21									.07			2.80
Kirkham	Payette		1.30				.40																					.70			.20		2.60
Kooskia	Clearwater	.46	.38	.33			.47	T.		T.		.54	.10	.20							.63								.25				3.36
Lake	Upper Snake																																
Lakeview	Upper Columbia	.05	1.30	.10		.30		.35	.35	.30	.15	.15								.10													3.15
Landore	Middle Snake	.58	.72	.30			.23	.01	.28	T.	.20	.60	.46	T.	.06						.30							T.	.44		T.		4.18
Lewiston	Clearwater	.03	.29	.06			.01	.15	.26	.05	.09	.02									.20								.20				1.36
Little Camas	Boise	.25	.43	.05			T.																						.47		.23		1.43
Long Gulch	do	.35	.15										.14							T.									.62	.09	.25		1.60
Loon Creek	Salmon	.25	.30	.23			.08		.03	T.	.03	.03	.05	T.	.02						T.							.10	.07	.03	.15		1.37
Lost River	Lost River Region	.06																															0.06
Lowry	Owyhee																																
McCall	Payette	.21	.23	.21			.35					.36																	.67		T.		2.03
Mackay‖	Lost River Region	T.	.03	.03	.03			T.			.11	.04		.11	T.														.10				0.45
Meadows	Salmon	.22	.40	.22			.35		.23		.02	.63									.14								.68		.03		2.92
Milner	Upper Snake			.47						.05	.04																		.26	T.	.29		1.11
Moscow	Upper Columbia	.09	.59	.02				.26	.26	.28	.03	.06		.01							.15								.02				1.77
Mountainhome	Middle Snake	T.	.17				T.																						.27	.09			0.53
Murtaugh‖	Upper Snake		.08	.50								T.																T.		.49	T.		1.07
Nes Perce‖	Clearwater																																
Oakley	Upper Snake			T.																								.10			.05		0.15
O'Hara Bar	Clearwater																																

TABLE 2.—*Daily precipitation for April, 1910. District No. 12*—Continued.

Stations.	River basins.	Day of month.																													Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Idaho—Cont'd.																																	
Orofino	Clearwater	.19	.40	.50	.02		.13	.10	.16	.12	.19	.11	.02	.07							.25								.20				2.46
Payette	Payette	.15	.11				.05				T.	.30									T.								.17		.19		0.97
Pebble	Upper Snake		.04	.46									T.			T.						.07							.06	.03	.40		1.06
Pierson	Salmon		.62	.45																								.40			.60		2.07
Pine	Boise																																
Placerville	...do																																
Pleasant Valley	...do	.20	.06				.04				.06	.07									T.								.40		.21		1.04
Pocatello	Upper Snake	.02	.69	T.			T.								.04						.31						T.	T.	.35		.13		1.54
Pocatello Nursery	...do														.05						.20								.48	.05	.53		1.31
Poplar	...do	.16	.17	.22			.06			T.	T.								.22	T.	.16							T.	.09		T.		1.08
Porthill	Upper Columbia	.02	.17			.06	.11		.12	.10	.03	.11		T.															.01				0.73
Powers Ranch	Boise	.10	.35				.14					.09									.08								.86		.10		1.72
Pyle Creek	Payette	.31	.68	T.			.17	T.				.37																	.57	.13			2.21
Rattlesnake Creek	Boise	.30	.60	.04			.10			T.											.02								.48	.10	.20		1.84
Ruby Creek	...do	.22	.70	.01			.25					.11									.04								.98	.09	.08		2.48
Rupert	Upper Snake	T.	.05	.25			T.			.01	.01																		.18	T.	.09		0.59
Salmon	Salmon	T.	.10	.02						.07	.01		T.	T.	T.												T.	.10	.11		T.		0.41
Salmon River Dam	Middle Snake	T.	.15	.06			T.			.34	.01	.01	.01								T.						T.		.21		T.		0.79
Sheep Hill	Boise	.25	.47	T.			.01					.04								T.	.02								.20	.15	.25		1.39
Shoshone	Wood-Malad	T.	.14	.07																									.10	.02	T.		0.33
Silver City	Owyhee	.53	.23	T.							.02	.28									.14								.34		.36		1.90
Smith Prairie	Boise	.32		.24			.07				.10																	.28	.34	.11	.15		1.61
Soldier	Wood-Malad																																
Sugar	Upper Snake	.04	.24				T.			.05		T.	T.	.04							.05							T.	.15	.04	.01		0.62
Sunnyside	Middle Snake	T.	.11	T.																									.65	.15	T.		0.91
Tilden	Upper Snake																																
Tripod Mountain	Payette	.41	.13				.12				.11										T.									.65	.20		1.62
Twin Falls	Twin Falls		.05	.15																									.40		.13		0.73
Vernon	Upper Snake	.12	.33				.10				.03			.06	T.						T.							T.	.13		.08		0.85
Wallace	Upper Columbia	.17	1.36	.01			.37	.10	.68	.48	.01	.01	.05	.08					.26		T.								.09		T.		3.67
Wendell	Upper Snake																																
Washington.																																	
Aberdeen	Coast	.48	.68	.13	.69	.34	.03	1.72	.26		.65	.28	.18	.23						.12	.09												5.28
Anacortes	Puget Sound	.03	.26	.01	.17	.33		.07	.08	.22	.10	.08		.02																			1.37
Baker	...do	.20	.60		.05	.92	.14	.88	.63		.54	.11	.11	.31																			4.49
Bellingham	...do			T.	.10	.68		.19	.36		.35	.06		.01							.23						T.						1.98
Blaine	...do	.08	.25	.01	.20	.66		.45	.04	.26	.13	.15	.05	T.							.08						.28						2.64
Blewett	Wenatchee	.05	.40					.09		.05	.10																				.05		0.74
Bremerton	Puget Sound	.04	.42		.04	.02	.43	.27	.50	.27		.15			.02		.11													.03			2.30
Brewster	Columbia		.12								T.	.06																					0.18
Bumping Lake	Yakima																																
Cashmere	Wenatchee	T.	.25					T.	T.		T.	.11	T.																				0.36
Cedar River	Puget Sound	.25	.69	.31	.05	.13	.49	.57	.78	.39	.29	.06	.11	.07			.11										26			.06			4.62
Centralia	Coast	.12	.65		T.	.18		.58	.88		.53	.10	.06	.19							.03						T.						3.32
Cheney	Spokane		.29		.13		.07	.17	T.	.22																							0.88
Clealum	Yakima		.69	.03				.03	.08			.22		T.																.13			1.18
Clearbrook	Puget Sound	.25	.25	.02		1.60		.53																									2.93
Clearwater	Coast																																
Colfax	Palouse																																
Colville	Columbia	.02	.03							.19	.16	.06	.02																				0.48
Conconully	Okanogan		T.							.46	.03	.18																					0.67
Cowiche	Yakima																																
Crescent	Spokane		.35							.42																							0.77
Davenport	Columbia		.26	.32			T.		.02	.35		T.																					0.95
Dayton	...do																																
Detroit	Puget Sound	.30	.52		.02	.04		.90	.55	.10	.09	.07	.13	.04			.05										.01			.01			2.92
Dixie	Columbia	.43	.34	.40			1.02	.19	.10	.37	.19	.15	.02	.02							.58								.05		.07		3.93
Ducksabush	Puget Sound	.12	.16	.22		.63	.25	.79	.22	.46	.05		.07	.10	.17					.05	.01	T.								.03			3.33
East Sound	...do	.08	.59	.05	.59		.32	.80		.18			T.	.10		T.					.03		T.				.17		T.				2.89
Ellensburg	Yakima		.21									.09																			.07		0.37
Ephrata	Columbia																																0.00
Forks	Fort Simcoe	.92	.87			.40	T.	1.88	.58	.21	.05	.05	.23	T.	.22	.01	.13	.02			.30	.02				.70	.06	.02	.25				6.92
Fort Simcoe	Yakima		.40									.10																			.50		1.60
Goat Lake	Puget Sound			1.64	.28	.42	.60	.18	.81	.32	.05	.17	.08	.44	.12			.01			.31						.02			.05			5.50
Gold Creek	Yakima		.35									.36																		.18			0.89
Goldendale	Columbia																																
Granite Falls	Puget Sound	.30	.49	.10	.09	.78	.43	.22	.80	.55	.26	.05	.10	.49	T.		.04				.22								.23				5.15
Hatton	Columbia		.22		.05			.10	*	.47	.05									T.						T.							0.89
Huntsville	...do	.05	.38			.34		.25	T.	.15	.06	.02								.38													1.63
Irene Mountain	...do						.02		T.		.09	.05	.02													T.			T.				0.18
Kennewick	...do	.10					.02		.03		.05	.03														T.							0.23
Kettle Falls	...do								.04	.11	.07	.19																					0.41
Kiona	Yakima		.08							.23		.03																					0.34
Kosmos	Columbia																																
La Center	...do	.05	.82			.28		1.00	.97		T.	T.	.28	.10			T.			.03	T.					T.					.15		3.68
La Crosse	Palouse	.03	.35	.06			.21	.15	.35	.15	.16	.03		T.						T.	.17												1.66
Lake Clealum	Yakima	.08	.67	T.	.02			.18	.24			.28	T.	.06																	.03	T.		1.56
Lake Kachess	...do	.15	1.20	.30	T.	.05	T.	.25	.25			.18	T.	.20							.27										T.	.08		2.93
Lake Keechelus	...do	.50	1.40	.60	.45			.40	.46			.36	.40	.40							.45								T.	T.				5.42
Lakeside	Columbia	T.	.03				T.				T.	.05														T.							0.08
Laurel	...do	.20	.80					.60	.20	.05	.30	.03																	.28				2.46
Laurier	Kettle								.10	.10	T.	.09	.14																	.01				0.44
Lester	Puget Sound	.25	.95	.30			.10	.40	.40			.10									.45						.05		.20				3.20
Lone Tree	Coast	.88	.51	.55	.18	.32	.05	1.65	.57	.07	.14	.39	.29	.07	.01	T.				.03	.01					.01	.02		.02	T.			5.77
Longmiresprings	Puget Sound																																
Lost Creek	Columbia										.08	.12																					0.20
Lyle	...do																																
McCumbers Ranch	...do																																
Mottinger	...do		.05				.05			.14	.02																				.02		0.28
Mount Pleasant	...do	.20	.75	.10		.10	.60	.70	.90	.10	.01	.20	.03	.05							.30										.38		4.42
Moxee	Yakima		.07							T.		.07																			.03		0.17
Newport	Pend d'Oreille	.15	.67	.41		T.	.07	.12	.08	.32	.05	.08		T.																			1.95
North Head	Coast	.16	.26			.25	.03	1.24	.81	.01	.29	.25	.05	.02		.01				.05	T.				.01	T.				T.			3.44
Northport	Columbia	.05	T.						.15	.20																							0.40
North Yakima	Yakima		.05							T.	T.	T.		T.												T.				T.	.03		0.08
Nutland	Columbia		.16								.32																				.04		0.52
Odessa	...do		T.						T.	.40		T.								T.													0.40
Olga	Puget Sound	.16	.37		.15	.28		.38	.16		.04	.05	T.	.04							.24				.06								1.93
Olympia	...do	.22	.70		.05	.20		1.10	.72	.17	.18	.13	.08	.07													T.						3.62
Omak	Okanogan																																0.00
Oroville	...do												T.																				T.
Peola	Snake	.03	.58	.15			.08	.24	.10	.38	.13	.11		.06						T.	.05								.16	.01			2.06
Pomeroy	...do		.60	.05			T.	.05	.03	.30	.15	.05		T.							T.												1.23
Port Crescent	Coast	.10	.25		.04	.23		.42	.06	.01	.01	T.	.04	.06						.09	.01	T.				.06	.02		.04	.14			1.58

TABLE 2.—*Daily precipitation for April, 1910. District No. 12*—Continued.

Stations.	River basins.	Day of month. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Washington—Cont'd.																																	
Port Townsend	Puget Sound	.04	.02	.10	.03	.32	.11	.02	.03	.10	.12	.05	.02	.20								.03							.08				1.27
Pullman	Palouse		.75	.10	.15	T.		.15	.18	.30	.53										.10												2.26
Quinault	Coast	.60	1.10	.14	.12	.42	.01	1.45	.70		.08	.28	.35	.27						.03	.34	.05				.02	.18	.01		.18			6.33
Republic	Kettle					.01			.01	.09	.09	.03	.04	.03															.05			0.35
Rex Creek	Columbia	.08			T.	.12			.04	T.	.15			T.																			0.39
Ritzville	...do		.22	.01		.05		.12		.64		.05																					1.09
Rock Lake	Palouse		.34	.12			.10		.14	.44	.14									.02													1.30
Rosalia	...do		.80				.08	.30	.11	.05				T.							.18												1.52
Russells Ranch	Yakima																																
Scenic Hot Springs	King																																
Seattle	Puget Sound	.08	.29	.07	T.	.38	.01	.44	.49	T.	.19	.08	T.	.26			.06			.01						T.	T.		.01	.04			2.41
Sedro-Woolley	...do	.13	.40	.01	.05	1.11	.07	.35	.43	.43	.18	.10	.09	.14							.13									.06			3.65
Sixprong	Columbia		.09					.01	.01	.19	.01															T.					.40		0.71
Skagit Power Dam	Puget Sound	.45	.36	.06	.08	1.50	.10	.96	.60	.38	.06	.09	.07	.10			.04				.15												5.00
Snohomish	....do	.10	.29	.15	.02	.40	.47	.25	.35	.39	.16	.08	.04	.02							.10									.03			2.85
Snoqualmie Falls	....do	.26	.73	.24	.03	.01	.50	.62	.69	.26	.16	.07	.05	.07	.41		.04					.01							.04	.02			4.21
Snyders Ranch	Columbia								.02	.06	T.																						0.08
South Bend	Coast	.66	1.11	.13	.02	.15	.02	1.45	.66	.14	.14	.23	.15	.07						.04	.18						T.						5.15
Spokane	Spokane	.05	.57			.11		.03	.06	.43	.01			T.						.04	.02									T.			1.32
State University	Puget Sound	.02	.53	.15	.01	.01	.51	.30	.38	.43	.12	.12					.05													.03			2.66
Stokes Ranch	Columbia										.13	T.																					0.13
Sullivan Lake	Pend d'Oreille	.19	.10			.01	.14		.22	.44	.10	.22	.25	.02						T.													1.69
Sumner	Puget Sound	.20	.48	.25	.01	.10	.07	.45	.71	.27	.15	.14	.04	.07			.09													.01			3.04
Sunnyside	Yakima		.12							.30	T.									T.									.02				C.44
Tacoma	Puget Sound	.14	.82	T.	.01	.14		.79	.58	.01	.10	.09	.03	.05			.10			T.										T.			2.86
Tatoosh Island	Coast	.43	.63	.04	.47	.12	.04	.79	.15	.03	T.		.29	.13		.08				.07	.02	.27				T.	.05	.01	.31	.25			4.18
Tieton	Yakima	T.	.56					.04	.01	.02	.01	.19																		.08	.14		1.05
Touchet	Columbia	T.	.15				.18	T.	.01	.23	T.	.03								T.	.12										T.		0.72
Touchet Ridge	....do	.30	.94				.92		T.	.72	.25									.50											T.		3.63
Trinidad	....do		.06									.20																					0.26
Twisp	....do																																
Tyee	....do	.05			.03			10				.04																					0.22
Vancouver	....do	.11	.87			.31	T.	.08	.78	.17	.10	.11	T.	.02							.08									.06	.12		3.41
Vashon Island	Puget Sound	.17	.44	.04	.12	.22	.08	.65	.51	.18	.12	.07	.02	T.			.09	T.												.05	T.		2.76
Wahluke	Columbia		.13																														0.13
Wallace	Okanogan		T.		.01					.10	.02	.12																					0.25
Walla Walla	Columbia	T.	.22	T.		.44		.10	.02	.32	.05			T.						.26	.06								T.		T.		1.47
Waterville	....do																																
Wenatchee (near)	....do	T.	.16					T.		T.		.01		T.																T.			0.17
West Branch	Spokane																																
Wilbur	Columbia			.45							.10			T.						T.													0.55
Yale	....do	.50	1.35	.28		.20	.06	1.38	1.24	.20	.12	.08	.12	.06							.23							T.			.23		6.05
Zindel	Snake																																
Oregon.																																	
Albany	Willamette	.03	.26	.20			.14	.04	.12	.12	.20	.30	T.		.02							.16									.30		1.89
Ashland	Rogue	T.	T.				T.		T.	T.										.42	.12							.01	.36	.32	.10		1.33
Astoria	Columbia	.49	.67	.12	T.	.33	.08	1.34	.93	.12	.24	.49	.05	.01	T.		T.			T.	.09				T.	.07				.02			5.05
Bagleys Ranch	Snake	.04	.07	.04			.05	T.	T.		.08	.10									.06								.07				0.51
Baker City	....do																																
Bay City	Coast	.47	.63	.12		.12	.14	1.10	1.02	.25	.34	.44	.15	.08	.01						.13					.08	.04				.12		5.24
Bear Creek	Deschutes		.06																												.09		0.15
Bear Valley	John Day	T.																	.10											T.			0.10
Beaver Creek	Deschutes																																
Beach Creek	John Day		.19				.01				.05	.08									.16								T.		.20		0.69
Bellfountain	Willamette	.12	.78	.31		.02	.21	.02	T.	.28	.34	T.	.03	T.							T.									.17	.28		2.56
Bend	Deschutes																																
Big Basin	John Day		T.								.01									.01													0.02
Birch Creek	....do										T.										.04										.32		0.36
Black Butte	Willamette	.10	.53	.30				.20		.35		.15	.20							.12						.10							2.02
Blalock	Columbia		T.						.20	.04	T.																			T.			0.24
Blue M't'n Sawmill	Umatilla		.70	.30			.60	.15			.55	.20									.35								.15				3.00
Buckhorn Farm	Coast		.20						.04	.17	.12	.13																		.45	.10		1.21
Buena Vista	Snake																																
Butte Falls	Rogue	.08	.30	.01			.04			.01	.05	.01									.30						.06		.13	.56	.33		1.88
Cableville	Snake																																
California Gulch	Umatilla		.20				.31		.12	.22										.15									.34				1.34
Canyon City	John Day	.02	.16				.11	T.	T.	T.	.01									.13								.06		.30			0.79
Cascade Locks	Columbia	.39	1.04	.59	.02	T.	.11	1.18	.59	.10	.12	.15	.10	.13							.22	T.					.08				.32		5.14
Cascadia	Willamette	.38	.53			T.	.38	.43	.02	.35		.31	.07	.23							.03						.18			.17	.28		3.36
Cazedero	....do	.23	.81	.14		.07	.60	.47	.38	.17	.01	.12	.01	.08	.06						.18						.06			.02	.36		3.77
Columbia Mine	Snake	.01	.50							.01		.17		.02							.06												0.77
Condon	John Day	T.						.03	T.	.22	.06	T.	T.							T.											.03		0.34
Connor Creek	Snake																																
Coquille River L. H.	Coast		.49			.09		.04	.08	.20	.30	1.30	.20							T.						T.	.06			.17	.24		3.17
Cornucopia	Snake	.22	.33	.17			.07	.02	.08	T.	.19	.65									.15								.35		T.		2.23
Corvallis	Willamette	.34	.35				.07	.16			.30	.28		.02							.07									.42	.46		2.47
Cracker Creek	Snake	T.	.03	.03				T.	T.	.04	T.		T.																		.03		0.13
Crescent	Deschutes																																
Dayville	John Day	T.	.05						.05	T.	.02		T.								.13					T.			.05		.03		0.33
Doraville	Columbia	.16	.75	.19	T.	.09	.04	.56	.85	.29	.19	.23	.13	.22	.02						.04						.01				.07		3.84
Drain	Umpqua	.26	.33	.13			.05			.39	.12	.53	T.																	.17	.32		2.30
Dufur	Deschutes		.18	T.			.06			.40	.08	.09																			.34		1.15
Duncan	Umatilla		.10	.10						.10									.30	.41		.20				.22				.25			1.68
Echo	....do		.05				.04	.01		.09	T.	.02														T.							0.21
Elkhorn Ranch	Coast	.21	1.70	.12		.06	.05	.05		.35	.48	.85	.16	.04						.22				.04		.15			.19	.49			5.16
Ella	Columbia	.02	.10					.02		.11										.06						T.			.05	T.			0.36
Embody	Deschutes	T.	.02	T.						T.																			.02	.01			0 05
Eugene	Willamette		.11	.28			.18	.01	.05	.34	.11	.21	.05	T.													.02				.33		1.74
Fairview	Coast	.73	.66	T.		T.	T.	.08	.12	.34	.76	.98	.20																		.26	.30		4.43
Fall City	Willamette	.23	1.68	.24				1.20	.53	.06	.40	.35		.04																	.15	.50		5.38
Fir Glen	Coast	.25	.50	.19		T.				.43	.58	.52									.05										.26	.32		3.10
Florence	....do	.17	.60	.04		.08	.04	.80	.37	.07	.98	.64	.07								.09					.02	.12				.19	.37		4.65
Forest Grove	Willamette	.18	.49			.12	.09	.81	.80		.49	.19	.02																					3.19
Fort Rock	Interior		.04																										.08		.14		0.27
Galice	Rogue		.21							.03	.15	.03																			.32	.33		1.07
Gardiner	Umpqua	.18	.88			.05	.10	.35	.05	.30	.86	1.22	.11	.04							.14										.20	.44		4.92
Glendale	....do	.08							.07	.10	1.18	.32				.11															.60	.55		3.01
Glenora	Coast	.30	2.30	.50		.05		1.45	.87		.73	.20	.50	.10													.20		.08	.07	.14			7.19
Gold Beach	Rogue		.54							.80	.70	.25														.13				.28	.35		3.05
Granite	John Day	T.	.10	.05				T.		T.		.15		.10																				0.40
Grants Pass	Rogue		.01				.01			.11			.01	.04						.03										.44	.13		0.78
Grass Valley	John Day							.12		.02																					.42			0.56
Greenhorn	Snake	.10	.39	.34			.10				.07			T.	T.						.05								T.			.10		1.15
Greenleaf	Coast																																

TABLE 2.—*Daily precipitation for April, 1910. District No. 12*—Continued.

Stations.	River basins.	Day of month.																														Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Oregon—Cont'd.																																	
Grindstone	Deschutes	.07								T.	T.	.05	T.																.06	.10	.07		0.35
Gumboot	Snake	.32	.32	.22			.19		.09		.14	.72			T.						.29												2.69
Gurdane	Columbia	T.	.12				.06		.16	.16	.04	.60		T.							.15								T.		.36		1.59
Happy Home	Umpqua	.20	1.04			.08	.14			.50	.35	.45	.14								T.					.14	.08			.22	.28		3.62
Hay Creek	Deschutes		.08							.10	.06																		.05		.26		0.55
Haseldell	Willamette	.24	.48		T.			T.	.20	.14				T.					.24											.31	T.		1.61
Head Works	do	.33	.95	.12		.15	.65	.87	.51	.18	.06	.26	.04	.12							.22						.08			.07	.42		5.03
Heppner	Columbia		.11				.06		T.	.08	.09	.02		T.							.06								.21		.10		0.73
Hermiston	Umatilla		.09				.03	.02		.09	.10	.01																					0.34
Hilgard	Grande Ronde		.20				.20		.10	.40	.20	.25																.05		T.			1.40
Hood River	Columbia							.04	.01	T.			.05																	.10	.25		0.45
Hoover	Willamette	.90	.85				.16	.53	.09			.30									.41												3.24
Howardville Station	Grande Ronde	.03	.61	.10			.10	.03	.31	.11		.51		.09							.31								.16		.05		2.41
Huntington	Snake		.18						.17		.85	.15																					1.95
Ibex Mine	John Day	.08	.38	.40			.34	T.	T.	.02	.03	.06		.01	T.					T.	.10								T.		.03		1.15
Ironside	Snake		T.	T.				T.	T.			.07																					0.07
Jacksonville	Rogue									.03										.10								T.		.35	.11		0.59
Joseph	Grande Ronde	.41		.20		.24	.16				.20	.32	.10	.03	.05														.33		.20		2.24
Kamela	do	.10	.30						.20	.10	.10	.30								.15											.10		1.35
La Grande	do	.07	.17		.07		.16		.54	.27	.01	.21	T.	.01						.11													1.62
Lilyglen	Rogue	.13	T.			.03			.02	.11	.02	T.	.06								.19								.43	.48	.18		1.65
Long Creek	John Day	.10	.15					.12		.05	.12										.12								.15				0.81
Madras	Deschutes																																
Maury	do	.07	.08					T.	.02	.08																		T.			.17		0.42
McKenzie Bridge	Willamette	.41	.60	.36			.11	.02		.28	.04	.12	.02	.12							.20	.02								.09	.19		2.58
McMinnville	do	.21	.73	.09		.08	.01	.82	.44	.16	.20	.29		.02												T.	T.			.09	.32		3.46
Meacham	Umatilla															.01	.01	.01	.02	.09	.13												0.27
Metolius	Deschutes	.01	.30	.10				T.		.08	.05	T.	T.	T.																.05	.02		0.61
Mikkalo	John Day		.17					.04	.62	.25	.02	.02																			.06		0.58
Miller Prairie	Columbia	.20	.02	.30					.02	.07	.07	.07	.02	.03																.25	.25		1.20
Miramonte Farm	Willamette	.09	.83	.02		.40	.21	.59	.64	.18	.08	.17	T.								T.									.02	.42		3.64
Monroe	do	.01	.84	.17		.01	.11		.02		.57	T.																		.19	.41		2.33
Mountainhome	Columbia	.21	1.13	.14		.15		.60	.98		.45	.11	.28	.24																T.	.02		4.31
Mount Angel	Willamette		.65			.47		.37	.48	.10	.38										.23									.46			3.14
Mount Hood	Columbia	T.	.80					.26	.05	.07	.02		T.	T.							.06						.08				.40		1.74
Mountain Park	do	.21	1.20	.35				.45	.04		.24	T.	T.	.08							.08							.06		T.	.27		2.98
Mountain Ranch	Rogue		.20							.15	.13	.23																		.60	.10		1.41
Musick	Umpqua	.19	.71	.32			.40				.70	.32	.25	.22							.37	.26	.33							.14	.47		4.32
Newport	Coast	.19	.35	.02		.09		1.00	1.03	.08	.54	.37	.03								.11					.08	.10			.19	.20		4.38
Nigger Flat	Malheur																																
Ochoco	Deschutes	T.	T.			.02			.30		T.																		.30	T.	.14		0.76
Ochoco Creek	do		.19			.02				.11	.06																		T.	.15	.10		0.63
Owyhee	Owyhee	.11		.05								.22						T.											T.		.17		0.55
Pendleton	Umatilla	T.	.03	.01			.30	T.	.03	.18	.02	.03									.14								.21		.09		1.04
Persist	Rogue		.29																	.21	.35					.17		.02	.05	.49	.54		2.13
Pilot Rock	Umatilla	.01	.08				.22		.06	.12		.02									.23								.20		.08		1.02
Pompeii	Willamette	.35	1.11	.52	*	*	*	*	*	*	*	*	*	1.91							.55						T.			T.	.32		4.76
Portland	do	.21	1.16			.45	.04	.98	.59	.09	.13	.04	T.	T.			T.				.01									.06	.02		3.78
Post	Deschutes	.02	.05									.05																	.08		T.		0.20
Power House	Walla Walla																																
Prineville	Deschutes		.10			.02		T.		.15																			.25	.05			0.57
Prospect	Rogue	.05	.55	.10		T.	.12				.05									.32	.05					.04			.10		.40		1.78
Rager Creek	Deschutes																																
Ramsey	Columbia		.22					T.		.36	.10	.06																			.36		1.10
Range	John Day	T.	.08	.32					.16	.09	.05						T.												T.				0.70
Ray Creek	Columbia		.05																												.29		0.34
Reston	Umpqua	.18	.37	.12			T.			.57	.68	.47									.09									.22	.47		3.17
Richland	Snake	.05	.25						T.		.11	.25																	.12				0.78
Riverdale Ranch	Deschutes																																
Riverside	Malheur		.10																									T.		.35	.15		0.60
Rock Creek	Willamette	.15	1.86					.71	.12	T.	.34							.48												.50			4.16
Roseburg	Umpqua	.01	.10			.05	.01		.01	.51	.39	.09	T.							.02										.49	.05		1.73
Rosland	Deschutes	.02				.03		T.	.05	.18		T.																.02	.20	.05	.04		0.59
Salem	Willamette	T.	.44			T.	.08	.29	.05	.28	.16	.28	.02	T.							.08					T.				.10	.42		2.20
Seneca	Interior	.02	.09			.01																									.27		0.39
Siskiyou	Rogue	T.	.04				T.			T.	T.		T.																.48	.32	.11		0.95
Sisters	Deschutes	T.	.30	.08						.05	.03	.04	T.																.05	.08	.03		0.66
Sparta	Snake		.20	.10					.03		.10																				.02		0.45
Stafford	Willamette	.17	.99	.01		.31	.31	.84	.39	.18	.04	.18	.01	.09																.01	.39		4.42
Starkey	Grande Ronde		.25			.30			T.	.23	T.			.10													.10				T.		0.98
Summit	Willamette	.20	1.28	.12			.05	.83	.17	.08	.50	.50	.17	.09						.20						T.	T.			.20	.18		4.57
Summit Prairie	Deschutes																																
Susanville	John Day	.01	.27	.13			.13				.03	.03									.13								.02		.08		0.83
Tamarack	do		.28							.20	.10																						0.58
Telocaset	Snake		.02					.02	.22	.02	.01	.01										.02							.01				0.33
The Dalles	Columbia		.16	.05				.06	T.	.26	T.	T.																			.30		0.83
The Heads	Coast																																
Tinroof Cabin	Umatilla	.02	.19					.30	.08	.38										T.	.31								.11		.20		1.59
Toledo	Coast	.40	1.10					1.20	.70		1.20	.70	.10							.20				.41		.15			.20	.30		6.66
Trask	do		.70	1.00	1.38	.12		1.54	.94		.60	.60		.25						.33									.19	.18		7.83
Umatilla	Columbia		.05			.03		T.	.08	.01	.01									T.										.02		0.20
Unity	Snake	.05	.14	.03								.04																	.02		.02		0.30
Vale	Malheur	T.	.08																										.18		.34		0.60
Van	do	T.	T.	T.					.05																						.42		0.47
Wallace Orchard	Willamette	.06	.70	.01		.05	.05	.38	.28	.22	.22	.26	T.													.06				.09	.27		2.65
Walloupa	Grande Ronde	.03	.79	.10	T.		.11	.64	.33	.13	.09	.42	.03	.01	.01						.15								.33				2.57
Wallowa	do	.16	.37	.05				.01	.58	.40	.10	.58	.13	.01							.23								.15		.08		2.85
Wamic	Deschutes																																
Warmspring	do		.10						.09	.10																					.25		0.54
Wasco	Columbia		.30						.03	.26	.01																				.30		0.90
Welches	Umatilla		1.63	.50			.20	.43	.73	.22	.03		.23	.56							.38					.04					.58		5.53
Wenaha Springs	do	.21	.22	.10		.57		.02	.04	.30	.05	.11									.25								.15		.05		2.07
Weston	Walla Walla	.10	.25	.05			.25	.07	.03	.07	.10	.03	T.	T.							.10								.10		.03		1.18
Willamina	Willamette																																
Williams	Rogue	T.	.02	T.							T.	.13									.11									.45	.15		0.86

TABLE 3.—*Maximum and minimum temperatures at selected stations for April, 1910. District No. 12, Columbia Valley.*

Date.	Montana.						Idaho.																			
	Kalispell.		Missoula.		Afton, Wyo.		Boise.		Bonners Ferry.		Hotspring.		Lewiston.		Mackay.§§		Meadows.		Pocatello.		Salmon.		Shoshone.		Vernon.		Wallace.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	44	28	53	29	57	27	62	43	45	30	70	45	50	38	.....	28	45	23	62	38	67	25	63	35	56	32	46	29
2...	48	35	44	34	55	33	52	37	46	33	60	43	52	41	.....	19	42	22	54	33	54	32	50	34	46	34	40	33
3...	43	31	47	31	50	17	48	34	50	25	54	32	55	39	.....	22	45	27	43	28	49	26	48	27	41	25	44	31
4...	46	33	56	31	40	14	57	31	51	34	60	27	63	36	.....	23	55	21	49	29	57	25	54	27	47	19	52	33
5...	66	33	70	30	53	18	69	44	65	38	71	33	74	44	.....	20	65	25	60	35	70	23	64	30	58	25	67	33
6...	54	37	57	38	55	23	61	48	53	38	68	46	60	43	.....	23	62	36	58	38	58	39	58	38	57	30	50	38
7...	49	33	60	30	54	25	68	43	45	30	72	41	55	42	.....	23	53	30	64	35	70	27	65	32	60	31	47	30
8...	50	41	64	40	64	25	77	45	53	38	80	45	66	48	.....	30	69	40	71	40	79	37	74	38	69	32	52	37
9...	52	41	70	37	69	28	73	48	60	40	78	43	59	49	.....	31	68	32	71	46	78	30	72	43	70	30	49	39
10...	60	35	68	39	77	29	73	53	65	40	76	44	70	49	.....	35	66	39	71	43	71	35	71	41	69	34	65	34
11...	58	42	63	45	67	28	61	47	65	41	79	39	68	53	.....	39	63	42	69	56	70	41	66	43	68	37	58	39
12...	60	43	64	42	65	30	63	39	55	38	78	40	66	49	.....	34	62	37	63	43	70	35	65	35	65	39	56	39
13...	47	35	47	39	57	29	54	37	54	34	73	38	55	40	.....	32	54	34	56	36	59	35	58	38	57	37	52	33
14...	48	25	50	31	44	20	50	30	57	22	70	31	58	34	.....	22	48	22	43	27	57	22	50	27	42	20	51	24
15...	54	25	60	26	44	15	58	29	54	28	64	27	65	34	.....	21	60	21	52	25	60	14	58	20	54	16	60	25
16...	64	28	71	27	58	18	74	35	68	27	77	32	72	37	.....	30	70	24	67	33	73	22	72	26	66	23	69	29
17...	67	34	75	31	65	25	77	44	78	38	81	40	79	44	.....	33	75	28	71	38	77	27	75	33	71	24	75	34
18...	75	35	83	36	71	27	83	46	80	35	85	41	90	48	.....	35	78	29	77	40	83	27	79	39	74	33	85	36
19...	77	42	83	40	73	27	87	56	78	38	88	59	82	50	.....	35	80	33	79	48	87	32	82	45	78	35	80	40
20...	60	46	78	43	65	25	71	48	68	40	85	54	66	47	.....	31	65	43	69	42	67	50	72	53	69	35	62	44
21...	57	34	62	33	57	25	67	37	57	37	78	35	66	42	.....	36	69	23	63	34	73	28	66	31	60	22	58	31
22...	67	33	73	35	63	23	78	42	74	30	86	36	78	43	.....	36	76	29	72	37	77	32	74	33	68	37	73	33
23...	73	36	83	34	75	28	85	48	73	30	85	35	89	48	.....	35	78	28	78	41	82	28	78	42	75	35	85	35
24...	82	40	87	37	74	27	91	53	87	38	91	46	88	50	.....	40	81	33	80	43	86	31	82	46	78	37	86	39
25...	84	43	90	40	77	30	91	55	88	38	93	48	92	50	.....	39	87	32	83	46	88	30	85	47	81	36	91	40
26...	76	45	81	47	78	29	83	58	74	43	91	48	68	46	.....	39	75	40	84	49	78	32	79	49	82	37	72	46
27...	70	40	75	42	77	33	71	48	72	32	78	48	66	40	.....	50	65	33	79	50	81	48	76	46	76	40	67	30
28...	56	40	69	45	70	37	60	44	60	37	78	49	58	48	.....	30	68	42	62	42	66	48	64	45	68	43	61	38
29...	53	35	58	34	56	32	57	36	58	32	62	39	63	38	.....	31	59	32	54	39	60	38	56	35	52	33	55	33
30...	55	27	62	26	51	24	52	44	61	24	64	46	65	40	.....	30	56	33	47	37	65	30	53	37	55	25	60	27
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	59.8	35.8	66.8	35.7	62.0	25.7	68.4	43.4	63.1	34.1	75.8	41.0	67.9	43.7	.....	31.1	64.6	31.1	65.0	38.8	70.4	31.6	67.0	37.2	63.7	31.2	62.3	34.4

Date.	Washington.																									
	Aberdeen.		Blaine.		Colville.		Kosmos.		Lakeside.		North Head.		North Yakima.		Odessa.		Port Crescent.		Seattle.		Sixprong.		Spokane.		Tacoma.		Tatoosh Island.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1...	47	40	47	39	58	35	.....	.....	56	38	46	41	60	38	53	34	43	35	47	39	57	42	46	34	49	40	45	37
2...	49	36	45	33	62	37	.....	.....	47	38	46	41	52	39	51	35	47	33	47	35	53	37	42	33	46	34	46	35
3...	51	39	49	37	58	32	.....	.....	58	35	48	42	61	28	62	30	48	30	51	39	57	34	51	30	52	40	47	39
4...	49	44	44	39	52	31	.....	.....	59	39	50	43	67	39	61	31	46	39	50	44	68	35	56	36	52	43	46	41
5...	49	40	49	41	68	34	.....	.....	60	40	47	43	72	40	70	43	46	33	51	38	71	47	67	46	53	41	46	39
6...	48	34	48	33	62	41	.....	.....	56	38	46	38	58	36	62	35	44	33	48	37	63	37	50	39	49	35	44	36
7...	47	40	46	39	57	38	.....	.....	56	37	47	43	60	36	60	37	46	36	48	39	60	44	49	42	50	39	48	38
8...	49	39	49	42	55	43	.....	.....	52	39	47	43	65	43	63	41	47	37	46	42	68	45	59	46	48	41	47	42
9...	55	43	52	40	61	43	.....	.....	60	40	47	42	61	45	64	44	48	34	51	43	60	48	56	46	51	42	50	40
10...	52	40	50	36	66	37	.....	.....	52	42	51	45	64	42	66	36	47	34	47	42	61	43	66	45	46	42	52	41
11...	53	45	47	43	68	43	.....	.....	62	44	49	45	71	48	64	34	52	41	51	43	67	49	62	48	54	43	51	42
12...	48	37	50	43	66	41	.....	.....	65	40	47	43	68	36	62	38	48	35	51	42	64	41	58	44	54	39	47	38
13...	49	37	51	38	55	38	.....	.....	54	36	45	40	56	37	60	30	48	30	49	38	56	37	48	36	50	36	47	36
14...	57	33	50	37	60	23	.....	.....	60	34	48	39	60	33	65	24	46	29	51	39	56	30	53	32	52	36	47	38
15...	64	36	60	34	63	26	.....	.....	68	34	57	43	68	29	67	27	51	31	67	37	66	35	61	31	70	37	53	42
16...	56	38	60	41	67	29	.....	.....	70	40	45	43	75	34	74	27	46	32	51	40	74	42	66	34	51	40	47	40
17...	70	34	55	30	78	30	.....	.....	67	42	56	41	80	42	79	30	55	29	59	39	81	46	74	41	61	36	52	39
18...	68	48	60	40	83	32	.....	.....	70	44	55	48	86	45	84	45	57	43	74	45	90	53	84	47	76	44	56	47
19...	64	43	61	42	84	42	.....	.....	76	47	54	47	86	54	83	47	52	43	59	48	81	55	79	49	61	47	49	45
20...	60	42	57	42	73	48	.....	.....	68	49	53	45	66	43	72	47	50	40	58	47	75	42	62	47	59	46	49	44
21...	63	41	55	45	55	33	.....	.....	73	40	54	48	71	40	68	43	52	37	59	46	72	44	59	41	60	44	49	45
22...	76	48	64	40	73	35	.....	.....	73	42	55	45	82	42	65	37	61	33	71	45	81	45	72	42	75	42	55	43
23...	64	45	70	39	87	32	.....	.....	73	43	54	46	86	52	82	40	67	43	83	49	88	47	83	48	85	46	58	45
24...	72	50	64	40	89	38	.....	.....	80	46	50	44	90	52	89	49	49	40	71	47	90	53	84	46	78	43	50	45
25...	56	44	64	43	92	38	.....	.....	86	50	51	48	90	50	91	50	59	39	61	50	93	57	87	52	58	50	51	47
26...	57	42	61	45	76	51	.....	.....	84	54	52	47	67	50	93	55	55	38	60	47	82	47	63	45	59	48	50	42
27...	57	34	56	35	70	29	.....	.....	65	40	48	43	69	37	79	51	50	31	56	44	74	36	65	39	57	41	50	40
28...	62	37	57	33	64	38	.....	.....	63	45	52	45	64	46	75	44	51	33	57	43	67	47	61	44	57	38	50	43
29...	66	38	57	35	60	29	.....	.....	60	37	57	46	66	34	71	30	53	34	56	45	67	33	57	36	59	44	54	43
30...	66	36	59	33	68	25	.....	.....	66	36	54	46	66	44	70	31	55	31	62	40	61	46	63	38	64	39	55	43
31...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mns	57.5	40.1	54.6	38.6	67.7	35.7	.....	.....	64.6	41.0	50.4	43.8	69.6	41.1	70.2	38.2	50.6	35.2	56.4	42.4	70.1	43.2	62.8	41.2	57.9	41.2	49.7	41.2

TABLE 3.—*Maximum and minimum temperatures at selected stations for April, 1910. District No. 12*—Continued.

Date.	Walla Walla, Wash.		Oregon.																					
			Ashland.		Baker City.		Eugene.		Gold Beach.		Hermiston.		Marshfield.		Portland.		Prineville.		Roseburg.		The Dalles.		Vale.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	52	44	60	46	.....	.....	62	41	55	38	64	37	51	37	50	40	66	48	54	42	62	43	64	33
2	53	39	58	42	.....	.....	55	43	52	47	65	37	53	46	50	41	56	34	54	39	50	40	57	42
3	55	38	54	35	.....	.....	70	35	55	38	62	39	54	40	57	40	65	27	56	36	54	33	54	31
4	67	41	70	47	.....	.....	65	35	65	38	73	37	66	34	64	41	72	24	73	32	66	37	68	40
5	75	49	62	42	.....	.....	65	40	56	38	76	40	53	43	55	45	74	34	65	39	66	43	58	24
6	57	41	61	42	.....	.....	62	41	57	36	72	40	55	43	53	41	62	36	61	43	56	40	71	52
7	53	46	62	36	.....	.....	58	41	60	40	59	45	55	42	51	43	62	38	60	44	53	42	65	50
8	67	47	61	40	.....	.....	49	45	60	48	73	47	62	50	54	45	69	40	70	45	62	43	74	68
9	56	50	60	42	.....	.....	64	43	57	47	70	61	56	44	56	45	61	52	62	46	58	48	74	51
10	62	46	64	43	.....	.....	57	45	61	48	66	43	61	49	56	46	60	37	60	46	58	45	71	37
11	64	51	64	44	.....	.....	56	46	56	47	71	50	59	47	60	46	64	34	60	46	63	46	71	31
12	65	48	63	40	.....	.....	63	46	60	44	70	45	55	42	56	43	64	28	62	46	61	44	66	29
13	52	38	58	42	.....	.....	59	40	53	40	68	40	55	40	51	40	51	30	57	36	54	40	58	31
14	56	34	65	31	.....	.....	55	32	56	33	61	31	57	32	57	34	61	19	64	32	58	30	76	31
15	69	40	75	37	.....	.....	58	36	63	37	72	27	62	35	72	41	74	24	77	34	66	32	69	30
16	74	47	75	43	.....	.....	71	42	59	35	77	53	55	47	57	45	78	29	67	38	65	40	76	21
17	81	52	87	46	.....	.....	59	40	67	37	83	39	74	37	75	42	88	32	79	41	78	40	82	33
18	88	52	85	50	.....	.....	70	45	58	44	89	41	56	45	84	49	89	34	84	46	84	44	85	32
19	84	52	75	48	.....	.....	82	44	61	43	88	46	60	42	62	49	85	45	60	44	80	53	85	40
20	65	50	62	44	.....	.....	59	48	61	48	80	50	60	48	65	50	65	36	63	47	64	46	73	52
21	69	47	77	39	.....	.....	63	46	60	48	75	46	62	49	67	46	79	29	74	50	73	44	71	31
22	83	50	85	42	.....	.....	69	43	66	42	84	56	72	42	82	48	91	35	88	43	82	42	82	33
23	84	51	87	54	.....	.....	79	43	56	41	89	40	63	45	89	55	92	56	91	49	87	46	86	33
24	89	60	89	51	.....	.....	86	48	55	42	93	44	63	47	85	50	92	40	92	46	90	50	91	37
25	92	58	84	54	.....	.....	83	47	58	47	95	53	65	46	65	53	90	40	67	48	85	50	93	38
26	65	49	62	43	.....	.....	61	42	56	37	92	50	59	40	63	48	.....	.....	62	36	65	49	87	47
27	65	43	65	39	.....	.....	62	35	56	35	71	34	55	35	63	43	68	29	65	35	70	38	71	42
28	62	45	61	43	.....	.....	63	39	56	36	70	51	59	37	60	42	61	38	63	36	65	46	68	50
29	65	51	52	39	.....	.....	61	39	53	37	69	31	54	37	65	43	55	38	55	40	70	40	66	29
30	60	45	58	41	.....	.....	55	45	58	44	.....	.....	61	46	60	48	64	25	59	44	64	48	59	41
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means	67.6	46.5	68.0	42.8	.....	.....	62.1	41.8	58.0	41.2	75.1[a]	43.2[a]	59.1	42.2	62.8	44.7	71.0[a]	34.9[a]	66.8	41.6	67.0	42.7	72.4	38.9